VAAGDEVI DEGREE & PG COLLEGE



DIST: HANUMAKONDA, TELANGANA STATE-506001 (Affiliated to Kakatiya University, Warangal)

Affiliated to Kakatiya University, Warangal)
(email:principal@vaagdevicolleges.com
website:www.vaagdevicolleges.com)





Criterion Metric: 2.5.1

Mechanism of internal assessment is transparent and robust in terms of frequency and mode

Response:

The College follows a fair and transparent internal assessment process and robust mechanism to enhance the quality of higher education and make available various facilities to students to achieve good results in the examination. The college gives freedom to the departments to select the method of evaluation to bring the variety in the method of internal examination and assessment. The continuous internal evaluation (CIE) component includes class tests, tutorials, assignments, class seminars, group discussion etc. Assessment isan integral part of teaching-learning process. With regular interactions of IQAC and Heads of the Department, Examination Committee makes plan for reforms in evaluation system. The college internal evaluation process is decentralized in order to make it more transparent and objective. As per the academic calendar the college prepare tentative schedule and displayed on the notice board, website and on the whatsapp group of the classes. The college adjust academic calendar by including internal assessments, value added courses and university examination. The college takes extra efforts for slow and advanced learners and they are assessed by different methods. The examination committee monitors and conducts internal examination in the college. The college has mechanism for transparent and robust internal assessment as below.

- The transparency is maintained by sharing answer sheet with students and the grievances of the students about assessment if any are addressed.
- Class tests semester wise with Multiple Choice question pattern are conducted by the subject departments.
- The class seminar is organized by every department.
- Question papers are set as per the university examination pattern.
- Students are provided question bank which is maintained in the college library.
- The subject teacher monitors students fieldwork, visitreport and project works.
- Oral examination based on practical work is carried out for the assessment.
- The college has various skill oriented certificate courses which are also assessed by the respective subjects.
- To encourage students to participate in NSS, extra marks are assigned who successfully completes two years of NSS camp. Outstanding performance in cultural activities and sports competition is conducted by the college.
- The attendance record is a part of internal assessment maintained by each subject department.
- Group discussion, essay competition, and quizzes are conducted and assessed by the college.
- Marks of various internal examinations are told and discussed in the classroom.

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Vaagdevi Degree & P.G. College
Kishanpura, Hanamkonda



VAAGDEVI DEGREE & P.G COLLEGE



Kishanpura, Hanamkonda, Warangal

Index STUDENT ASSIGNMENTS

S.No	Department
1	ВІОТЕСН
2	CHEMISTRY
4	ENGLISH
5	MICROBIOLOGY
6	PHYSICS & ELECTRONICS
7	ZOOLOGY
8	FOOD SCIENCE AND NURITION
9	ZOOLOGY



VAAGDEVI DEGREE & P.G. COLLEGE

Kishanpura, Hanamkonda



DEPARTMENT OF FOOD SCIENCE AND QUALITY CONTROL AND DEPARTMENT OF NUTRITION AND DIETETICS

(FOOD AND NUTRITION DEPARTMENT)

Report on Students' Assignments for the Academic Year 2023-24

Introduction The Department of Food and Nutrition assigned a series of academic tasks to students during the academic year 2023-24. These assignments were designed to enhance students' understanding of core concepts, develop their analytical skills, and encourage independent learning in the field of food and nutrition.

Objective The primary objective of these assignments was to deepen students' knowledge of food and nutrition topics through research-based and application-oriented tasks, preparing them for academic excellence and practical challenges.

Details of the Program

- **Duration:** Assignments were given throughout the academic year 2023-24.
- Participants: Undergraduate and postgraduate students of the Department of Food and Nutrition.
- **Approach:** Individual and group assignments requiring research, analysis, and presentations.

Types of Assignments The assignments covered a broad spectrum of topics, ensuring comprehensive learning. Below are some examples of the assignments:

Assignment Topic	Description
Nutritional Assessment Techniques	Preparing a report on methods used to assess nutritional status.
Dietary Guidelines for Special Groups	Designing diet plans for children, pregnant women, and elderly individuals.
Food Label Analysis	Evaluating nutritional labels of various food products.
Emerging Trends in Food Technology	Researching advancements in food processing and preservation.
Case Studies on Clinical Nutrition	Analyzing dietary interventions for specific health conditions.
Sustainable Food Practices	Proposing strategies to promote sustainability in food consumption.
Functional Foods and Nutraceuticals	Exploring the health benefits and market trends of functional foods.

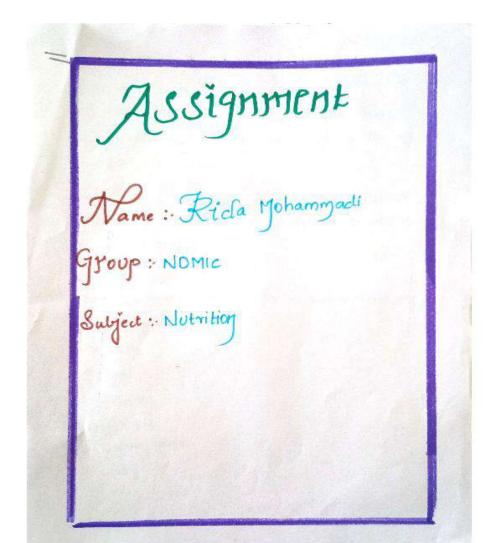
Description

Impact of the Assignments

Assignment Tonic

- Enhanced critical thinking and research capabilities.
- Fostered a deeper understanding of theoretical and practical aspects of food and nutrition.
- Improved written and oral communication skills through detailed reports and presentations.
- Encouraged collaboration and peer learning in group assignments.

Conclusion The assignments conducted for the academic year 2023-24 were a vital component of the learning process for food and nutrition students. These tasks not only reinforced academic knowledge but also cultivated skills necessary for future career paths. The Department of Food and Nutrition will continue to integrate such engaging and impactful assignments in upcoming academic sessions.



Scanned with OKEN Scanner

products and byproducts of wheat milking process

M. Paro

Abstract

Wheat crop is India's prime most staple horvest, placed second in rest it is mostly consumed in the north was parts of the country. Since it is the in protein, vitamin and carbohydrate it provides a blanad diet to the consumer wheat milling is the process of grinding whole wheat grain and is converted into flow, wheat flow is the most important ingredient in home baking and is the frame work for almost every commercially baked products and pasta.

Introduction -

wheat is a favinaceous gross, known botanically as triticum spp. is one of the most consumed cereal grains would wide and make up a substantial part of the human diet. It provides more noweshment for humans than any other single food crops. According to statista 2013/14 the global production volume of wheat amounted approximately HO million metric tons. Which has shown a 7-71 increment from the pravious year. It is the second most important food crop in the developing would after rice. Elhippia & south Africa are the Two Major producers.

Morphology & composition of what.

Wheat grains are generally oval shaped, although different type of wheat have grains that range from almost spherical to long narrow splittlened shapes. The grain is usually between 5 and 9 mm in length weighs between 35 \$ 50 mg and how a crease down one side when it was originally connected to the wheat fluwer. The wheat grain contains 2-31. Germ, 13-141 bean & 80-851, mealy enclosperm products will have different coarseness, textures, and color depending on the portion of the wheat kernes. The function of the endusperm is to provide energy for the embryonic plant during germination of the wheat

ASSIGNMENT 2 Technology of Sugar confectionary Chocolate processing

TECHNOLOGY OF CEREALS, LEGUMS AND OIL SEEDS

CORN

K. Siri chandana

Corn (maixe)

*Introduction:

- -> Scientific name of corn is zea mays.
- -> Maixe referred to as corn in North America.
- → Maixe originated in central Mexico in around 15,000 BC.
- → The crop was introduced to Europe in sixteenth Century, from where if spread to Africa and Asia.
- → It is now one of the most Widely-grown crops around the world both temperature and tropical regions.
- → The crop is rich in vitamin c and other vitamins and minerals, as well as carbohydrates and dietary fibre.
- → It is particularly important Source of nutrition, Supplying a high energy density of 365 kcal/100g.
- → Maixe has become a staple food in many parts of the world, consumed directly by human, maixe is also used for corn ethanol, animal feed and other products, such as corn starch and syrup.
- → corn are used varieties for animal feed, various corn—based human food uses (grinding into comment or masa, pressing into corn oil, and fermentation

COURSE: NDBC (EM)

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2	086223252	DANAMPELLI NARENDRA	D. Narendra
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4	086223254	FARHEEN	Fusheen
5	086223255	GANGOJULA BHAVANI	a. Bhavani
6	086223256	KHANSA FATHIMA	11. Fathing
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8	086223258	SURAM KAVYA	s. lavy a
9	086223259	SYEDA NAUSHEEN FATIMA	S. Naviheen Fathing
10	086223260	TAHERA FATIMA	7. Farima

COURSE: NDBZ (EM)

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7	086223657	KURRA SOUMYA	r. Dref
8	086223658	MACHARLA AKSHITHA	m. ai
9	086223659	MANDHA PRATHYUSHA	m. Dry
10	086223660	PABBATHI AKHILA	P. Buy
11	086223661	SILUVERU PRAVEEN KUMAR	s. Praveen kumar
12	086223662	SOWMYA LINGNABOINA	S. Liney
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VAAGDEVI DEGREE & P.G. COLLEGE



Kishanpura, Hanamkonda III Semester Nominal Rolls 2023-24

Course: FSBC (EM)

S.no	Admin No	HT NO	Student Name	Student Signature
1	23-3-1217	086233201	BANOTHU SIMHADRI	B. simhadri
2	23-3-1201	086233202	BHUKYA ANIL	Ahile
3	23-3-1207	086233203	BOLLA ASHWITHA	B. Ashwither
4	23-3-1208	086233204	CHELAGOLA SRAVANI	Sxxwi
5	23-3-1212	086233205	ELLANKI VAMSHI	Vanshi
6	23-3-1218	086233206	GADIGOPPULA ARAVIND	Cr. Drawid
7	23-3-1203	086233207	KARRE NANDINI	K. Nandri
8	23-3-1209	086233208	MATURI VINAY	Hinay.
9	23-3-1214	086233209	NALLELLA NAGARAJU	Nacrasolu
10	23-3-1205	086233210	PESARU POORNIMA	P. Poumima
11	23-3-1204	086233211	SADULA NITHYA SRI	S. Nithyasri
12	23-3-1215	086233212	SHEELALA ANIL	S. Anil

Course: FSMIC (EM)

S.no	Admin No		Student Name	Student Signature
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2	23-3-1406	086233852	GURRAM NIHARIKA	G. Niharika
3	23-3-1405	086233853	MADINENI AKHILA	m. Akhila.
4	23-3-1404	086233854	SURABOINA GANESH	s chanesh.

Msc Food Science and Technology

	Roll No.	Name of the Student	Signature.
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2.	2311253002	G. Nlavya Sree	Maya Sou
3.	231125 ZE11ES	C. Akhila	Akhila
4.	231125 3004	R. Divyasree.	Dinya
5.	2311753005	y Manohar	Manohae.
6.	2311253006.	MO. Reshma.	Md. Reshme.
1	2311753007	R. Divana.	R. Devana
8.	2311753009.	K. Kalpana.	Balan
9.	2311.25 3010.	ch. Akhila	auf
10.	2311.75 3011.	x. Divya	K Diyya
n.	9311 753013.	B. Snehalri	Snela
12.	2311 753014.	B. Sniha	B Snehr.
13.	2311-25-3015.	D. SaiPriya.	Sai priya
14.	2311.453.016.	T. Spandana	Sapoulan
5.		P. Akshitta	p Akshitha
	2311753017	K. Kartlik	K. Karthik
۷.	2311753018.	P. Mythal	p. Mythai
7.	231175 3019	P. Shirisha	ShiriSha -
18.	2311453020	X. SaiVarsha	K. Gaivautha
9.	2311753021		Sharath.
0	2311753022	P. Sharattkumar	
9.1.	2311753023	at. Flinu.	Stinu

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ASSIGNMENT RECORD

2022 - 2023

DEPARTMENT OF CHEMISTRY

ASSIGNMENT

V - SEM

Class : BSc

Group : BZC

Subject : Chemistry

Topic : 1) Electronic Transition

Date : November 2022 – 2023

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086213311	BIRRU RAMYA	Barrya
086213312	BOCHHU MADHAVAN	moderan
086213313	BODA RAVINDRA BHARATHI	Phaialla
086213314	BOINI PRIYANKA	Paraspers
086213316	BOLLA NAGARAJ	19 XTUNERY
086213318	BURRA BHAVANI	Charact
086213319	BUSA GANESH	- Indivary
086213323	DEVANASOINA RANJITH	(Stranger)
086213324	DONTHAGANI ARCHANA	Jan
086213326	GADDA ANIL	Balans
086213330	GOLI SAITEJA	- ATTHA
086213332	JARUPULA KEERTHANA	Gerlin
086213334	KANUGULA CHANDANA	- You than
086213336	KOTHAKONDA SWATHI	Chandano
086213339	LAKIDE PRATHIBHA	Colle
086213340	LAVUDYA SANTHOSH	Prothibha,
186213344	MARAVENI ABHINAYA	ancholi
86213347	MOLLU SRAVANI	Phhirma
86213351	MYDAM UDAYKIRAN	Sagare .
86213353	NANGUNURI SRI VARSHA	day
86213354	NARRA ABHISHEK	Varelia
86213358	PEDDAPELLY SUPRIYA	# Melia Mich
86213360	PENDLI VIKAS	Soboria
86213361	PENTHALA KISHOR	Vileous "
86213362	POKALA SANTHOSH	Kethia
36213364	PONUGOTI BHARATH	Gulling
36213367	RAISHETTI SUKANYA	Bligglin
36213368	RAYARAKULA PRASHANTH	Sukanya
6213369	ROUTHU MANISHA	Je allant
6213371		Mautha.
6213376	SARDAHANA PAVAN KALYAN THALLA RUSHIKESH	hvan
6213377		Perefredera
6213378	THANGALLAPELLY POOJITHA	Proffly
6213381	THEEGALA SHIRISHA	Guirida
6213384	VALSA SAI NIVEDH	Nrveoll
	VISAMPALLY EMEEMA	Emerina
The Back of	BADAVATH GANESH	George
6213391	MACHA AJAY	Agay.



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Electronic Transitions:

The electrons in organic molecules may be involved, in bonding as strong abonds weaks Ti-bonds can present in the Non-bonding from [lone pairs]. A variety of absorptions for electronic transistions within a molecule is thus possible, depending upon the Nature of bonding. Absorption of uv-visible radiation, therefore elevates these different types of electrons to excited antibonding orbitals.

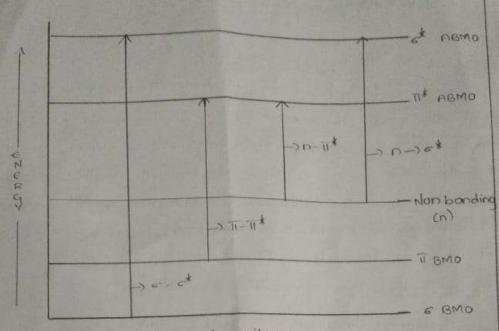
Types of electronic Granitions:

electronic transitions classified into two types i.e.

- 1) Agansitions between bonding and Antibonding oxbitals.
- 2) Transitions between Non-bonding atomic ombitals and Antibonding ombitals.
- 1) Agarations between bonding and Antibonding onbitals;

These are of two types i.e !-

i) ~ → * ii) 17 → 17 *



electronic transitions

In these transitions electrons, transferred, from 'e'bonding molecular ombitals to e* Antibonding molecular onbitals. It's a high energy process because there is a large energy difference between & and ex molecular oxbitals, abonds are in General Very strong

en: un visible

$$S = (25+1)$$
 $S = 0$ $S = (25+1)$ $S = (25+1)$

5 = (2×1+1) 5 = (2x0+1) 5=3 triplet

S=1 singlet

In = > = x electronic transition spin multiplicity of e electrons undergoes inversion (singlet state to triplet state). electronic transitions takes place in saturated

かたのドミ

In-those transitions electrons transferred from Thomating, Molecular onbital to TIX Anti-bonding molecular onbitals. This type of transitions occum in unsaturated som centres of Molecules, i.e; in compounds containing double on triple bonds, and also in Agomatics. The Excitation of The electrons special emailer energy.

2) Electronic transitions between Non bonding atomic orbitals and Antibonding Molecular onbitals: Onbitals !-

These are of two types ie!

りの一丁本

In these transitions electrons transferred from Non-bonding adomic oxbitals to the antibonding II - molecular ombital (11 *). This transition requires least amount of energy at the transitions sits takes place in compounds containing double bonds involving betwee atoms bearing unshaved pair of electrons

10 nost:

In these transitions electrons transferred from Non-bonding adomic orbitals to Antibonding & molecular orbital (6*). It's takes place in saturated compounds containing one heter of atom With unshaved pair of electrons. It's required less energy than & A electronic transition.

ent

Alkyl halides

energy onder of electronic transitions;

Class : BSc

Group : BtBC

Subject : Chemistry

Topic : 1) Types of chromatography

Date : November 2022 – 2023

HALLTICKET_NO	Student Name	Signature
086213101	AKULA TEJASWINI	Terakores
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086213107	MANUPATI MOSES	Moses
085213108	MANUPATI SATHWIK TEJA	Aston
086213109	MORE ANURAG	Anulag
086213110	MUNIGALA PRANAY	Maray
086213111	MUNIGANTI VISHNU PRIYA	Jettien
086213113	PALLE RASHMITHA	Jackin
086213114	PERUMANDIA INDRAJA GOUD	Inchoise
086213115	PITTALA ANNAMAIAH	Annastarah
086213117	RAM SANDEEP	Suroleep
086213118	SAI SRIYA TANJAVURI	Sai Saiva
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086213120	VELPULA BHARATH	Blazatto
086213121	ALUVALA SUCHARITHA	Sucharetta
245213002	CHALLA RAMA KRISHNA	lang.

Department of Chemistry

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Classification of chromatography: -> Chromatography "5 classified into mainly two types: 1) Based upon phases 2) Based upon principles 11 Based upon phases: Based upon phase that is stationary and mobile phase chromatrography is classified into mainly troop foor trypes. 1) solid - liquid chromatography technique 3) solid - gas chromatiography technique 3] Liquid - riquid chromatography technique 4) Liquid - gas chromatography technique 17501id - 1:quid chromatography Technique: In this chromatography technique stationary phase is solid and mobile phase is liquid. => It is also called as absorption chromatography Ex: Then layer chromatography, Ion exchange chromatogra - phy, column chromatograph. 2) sound - gas chromatography Technique; In this chromatography technique stationary phase is solid and mobile phase is gas. => It is also called as absorption chromotography. Ex: gas solid chromatography.

3) liquid - liquid In this chromatography technique both the stationary and mobile phase and liquid. => It is also called as partetion chromatography. Ex: paper chromatography 2) Hpcl 4) Liquid - gas In this chromatography technique stationary phase is liquid and mobile phase is gas. => It is also called as partetion chromotography Ex: Gras chromatography Chromatography solid as stationary rigord gas Phase (Absorption chromatography) stationary phase Cpartetron Charatography 19quid - mobile phase gas-mobile Ex: Thin layer chromatography. 7) gas - solid Liquid-mobile Gasmolecol 2) Ion exchange chromatography. chromato -phase mobilepha - graphy. 3) column exchange chromato
-graphy. Ext-paper Ext-gas chromatography chromato HPCL

Class : BSc

Group : BtZC

Subject : Chemistry

Topic : 1) Finger print region

Date : December 2022 – 2023

HALLTICKET_NO	Student Name	Signature
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086213854	BALABAKTHULA ANJALI	Artals
086213855	BASHAVENI VIKRAM	Mesam
086213856	BHUKYA ASHOK	Ashol
086213857	CHATLA ARUN KUMAR	Acur
086213858	DEVA SANDEEP	Consteep
086213859	DEVANDLA CHARISHMA	Charolina
086213860	GODISHALA SAI VARSHITH	Switcasth
086213861	GUGULOTH VENKATESH	yent 1
086213862	GURRAM ARAVIND	Praymon
086213863	KANCHA BHAVYA SRI	Bharaga St.
086213864	KANDIKONDA BHARATH CHANDRA	Guidana
086213865	KATUKURI RAJU	- Kager
086213866	KOLA NIKHILA	Algert
086213867	MANDA RAIKUMAR	NA THE
086213868	MEDI AKSHITHA	98x ems
086213869	MOHAMMAD SHAMINA	Stantia
086213870	MONDEDLA KRISHNAVENI	Sender.
086213871	PALLE SANDEEP	Lanendpasan
086213872	PODETY LAXMI PRASANNA	Michaelah
086213873	PODILA ANIAIAH	Elgranye
086213874	RACHAPALLY SHARANYA	madules
086213875	RAMAGONI MADHURI	Political
086213876	RAMANCHA ROHINI	Kiami
086213877	SANGISUNNY	Auda
086213878	SUNKE ANUSHA	Parsonal
086213879	THOTA RAJKUMAR	Zorothi .
086213880	MUDAVATH SWATH	100/14-11

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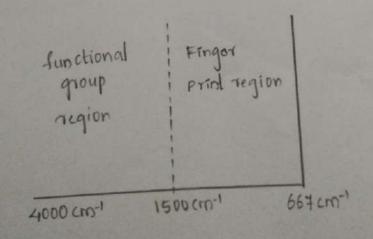
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* Finger Print Region:

In electromagnetic radiation 667 cm-1 to 4000 cm-1 is called as IR region as. It is classified into two parts, i.e., +

- i) Finger print region (667-1500 cm-1)
- ii) Functional group region (1500 4000 cm-1)

With the help of finger print region we can determine the identity of organic compounds because in functional group region when the compounds one having same functional group and different structure also gave to same spectrum. so it's not differentiated from each other. But its spectra recorded by using fingerprint region IR radiation then it gives different types of spectra although it containing same functional groups. so it is differentiated from each other with the help of IR spectra of compounds.



Class : BSc

Group : BtMiC

Subject : Chemistry

Topic : 1) Chromophore and Auxochrome

Date : December 2022 – 2023

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086213005	CHERRIPELLY ANJALI	Anjala
086213006	EEKA POOJA	Pogla
086213007	GADDAM RAVALI	Kavali
086213007	JAMPALA VISHAL	Vista
086213009	KAPIL EEKA	Lecla
District Control of Control of	KEERTHI UJWALA	Utwala
086213010	KONDA KEERTHANA	Keerttana
086213011	KOYATI NANDINI	plan
086213012	KOYYALA PRANAY	Ban
086213013	MADURI ROHITH KUMAR	Paleto
086213014	MANKALA SHANTH KUMAR	Iron -
086213015	MEKALA ROHITH	Volute
086213016	MOHAMMED RABIYA	Rabay
086213017	MOTHUKURI PREETHI	Perceth
086213018	MUDDAMALA SWARANI	Svalts
086213019	MUNUKUNTLA AMULYA	Aneilya
086213020	NANNUTA HARSHITHA	Hur
086213021	PIDATALA MOUNIKA	Mosis
086213022	RACHA LOHITHA	Colielle
086213023	SANA TABASSUM	Talsassun
086213024	SINGU BHAVYA SRI	Bhaya
086213025	VANGALA VIKRAM	Merain
086213026	VENNA SRIRAM	Serlam
086213027	YERRAM SRI KAVYA	Sollary

B.

Chemistry & P.G. COLLEGE

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absorbed the light from visible origion and its appeared as the colorested compounds to the human Eye.

There are tues types of chois-

mophous

as chromophous in which the group contains II - Elements and they undergo II -> III

b) showmophores which contains both II
Electrons and non-bording electron (n)

undergo. two types of transition

II > II and n -> II to

2) Austochromes: -

defined as very group which doesnot itself act as a shromophore but whose presence brings about a shift of the absorption band towards the larger wave length.

Eat- -OH (Hydroxy) -O-R (Ether)
- NH2(Amine) - NH-R (Samine)

chromophote: any desten which is susponsible for A schromophote is defined as impariting color to the compound EX! -Sekene Alkeyne H Aldehyde Amide Acid Nitro compounds are generally Yellow in color due to the presence Of - NO2 group Binxene diaxonium Nitro benzene chloride checonopherechroniophore - AZO group. (Nitro group)

the Effect of the auxochromes is due to its ability to extend the confugation of a chromophore by the sharing of non-boroling electrons. Thus, a new chromophore viesults when has a different value of the absorption maximum as well as the extinction coefficient.

EXI-

emum at 257 um cutere as Aniline absolbs at 280 um. Hence amino group us an Austochnome.

Benzene

NH

Aniline

_ ista.

Austochoue.

ASSIGNMENT RECORD

2022 - 2023

DEPARTMENT OF CHEMISTRY

ASSIGNMENT

III-SEM

Class : BSc

Group : NDZC

Subject : Chemistry

Topic : 1) Similarities between Lanthanides and actinides

HALLTICKET_NO	Student Name	at a
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086223153	BHUKYA INDU	managa.
086223154	BURRA RAMYASREE	Indu
086223155	CHEPURI DEEKSHITHA	Ramassal
086223156	CHIRRA SHIVA KUMAR	Decostrato
086223157	ENUKAMETLA SAITEJASWINI	Shire
086223158	GUNDA ANKITHA SREE	Sal
086223159	HEBA TABASSUM	Antella
086223160	KASHI RASHMIKA	Taborcen
086223161	KAUSAR FATIMA	Partimeter
086223162	KURIMINDLA SIRICHANDANA	fallered -
086223163	MAZEEN FARMA	Sociandana
086223164	NEHA AFREEN	tacqua.
086223165	PASUNOORI VIJAYALAXMI	Myana
086223166	POLUDASARI NIHARIKA	Machan Sun
086223167	POLUDASARI PRAVALIKA	Provention To bo
086223168	PONGANTI AAKANKSHA	Akam -
086223169	THUMUGANTI APARNA	poelma.
086223170	ZAINAB GHAZALA	3) mala
086213365	PULICHERU BHARGAVI	Bhargarei
nent of Chemistry GREE & P.G. COLLE	DEGREE & CO.	Principal
anamkonda		EGREE & R.G. COLLEGE ura, Hanamkonda.

Date : November 2022 - 2

086233405 Similarities between Lanthanides & Actinidea: -> Both secties show +3 oxidation state -> In both the seatles f- outbitals arms being paragressively filled. > both show the decorease of atomic size a with increase atomic number [Landhanide contraction] & [Actinicle contraction]. The top of the discontinuous of the elements of both. the series I slements give shoot line like band spectowhe. The electronegativity value of elements of both the sections are lower these elements are quite oreactive. The nitorate, pericholate & Sulphates of the valence elements of both secties ane soluble The capibonates a hydroxides of the valence elements of both > The caribonates a hydroxides of torivalent of both the services are seones acresoluble > Members of both the seolles show for exchange behaviour. insoluble. -Actinides. bardhanides + considerable varifants is obscorved -> The chemistory of all members In the these elements. This is due to very of this seotles is very similar small energy difference of & ed sub due to lavige energy diffredience in ut and od sublevel. level. > They have high binding -> Theore binding eneorgy islaw. eneology 7 Due to love or briding Energies-these -> These elements exhibits a Elements show flighed oxidation states maximum oxidation stade of acrevell such as furts, to, to oxidation slorte. The paviamagnetic, puroposties -> The paviamagnetic puroposties of the shown by the elements can be Elements acre different to explain. Ecistly explained. -> They show avery high tendency to -> Theore complex foormation form complexities they form complexes tendency is not very high. These complexes within bondliwithin-bonding ligend such as this--gand are not known Etherus -> The elements of this secties acre. -> Expect pm, the elements of the scores acre non brades prodio active. active.

Class : BSc

Group : BtBC

Subject : Chemistry

Topic : 1) Heat capacity of a system

Date : November 2022 – 2023

HALLTICKET_NO	Student Name	Signature
086213112	NALLA SAHAJA	Salvare
086223101	APPE NAGA HIMADWITHA	Himerawitha.
086223102	BANDI VIJAYALAKSHMI	Vijaga La Kelimi
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086223104	DHAKUR SOORAJ	Corae
086223105	DOGGALA RANJITH OFIR	Porcelte
086223106	DONTHURI SHASHANK	Shacharle
086223107	GAJJELA ARAVIND	Alan-
086223108	GUDIKANDULA NAGARAJU	Nouser
086223109	JANAGANI PRASANNA	Prasanna.
086223110	KANNOJU SHIREESHA	Chreedie
086223111	KANNOJU VIVEKANANDA	Miniekananda.
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086223113	LAKKARSU SRAVANI	Soavani
086223114	MEKALA SATHWIKA	Sathende
086223115	NAGANABOINA SRIVARSHA	Corraction,
086223116	PARUPATI ABHIRAM REDDY	Abramleddy
086223117	PENTA POOJITHA	Dogitha !
086223118	VAVILLA CHANDANA	Chandens

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Principal

VAAGDEVI DEGREE & P.G. COLLEGE

Kishanpura, Hanamkonda.

Thus, heat capacity may be defined as the ratio of the amount of heat obsorbed to the rise in temperature.

Units: cal deg'mol

a is not a state function and depends upon the path.

. Heat capacity is also not a state function.

Hence it is considered as path function.

ASSIGNMENT RECORD

2022 - 2023

DEPARTMENT OF CHEMISTRY

ASSIGNMENT

I - SEM

Class : BSc

Group : BtMiC

Subject : Chemistry

Topic : 1) Hybridization

Date : November 2022 – 2023

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086233003	ALLABOINA GREESHMIKA	Garl
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086233005	ARUKALA RAHUL	Palrul
086233006	BANOTH SWAPNA	Scrama
086233007	BOMMATHI LASYAVARDHINI	tasya.
086233008	BUKYA SWATHI	Sevath
086233009	KARANGULA SUCHITHA	Suchrha
086233010	KUNAL BHADRA	Bhadigi.
086233011	KUNDARAPU HARINI	Harsini
086233012	MANDA MOKSHAGNA	molestage
086233013	MANDA RAVEENA	Raveena.
086233014	MANTHENA ROHITHA	Robulta
086233015	MEDIPELLY SOUMYA	Countya
086233016	MEENA RINKU	Renky
086233017	MEKALA VINITHA	Monella
086233018	SETTY SATHWIKA	Sathwilea
086233019	SHANIGARAM SAI VAMSHI	Sai vansli
086233020	THOKALA ASHWINI	ALGEORNI
086233021	NERA AISHWARYA	Aslu

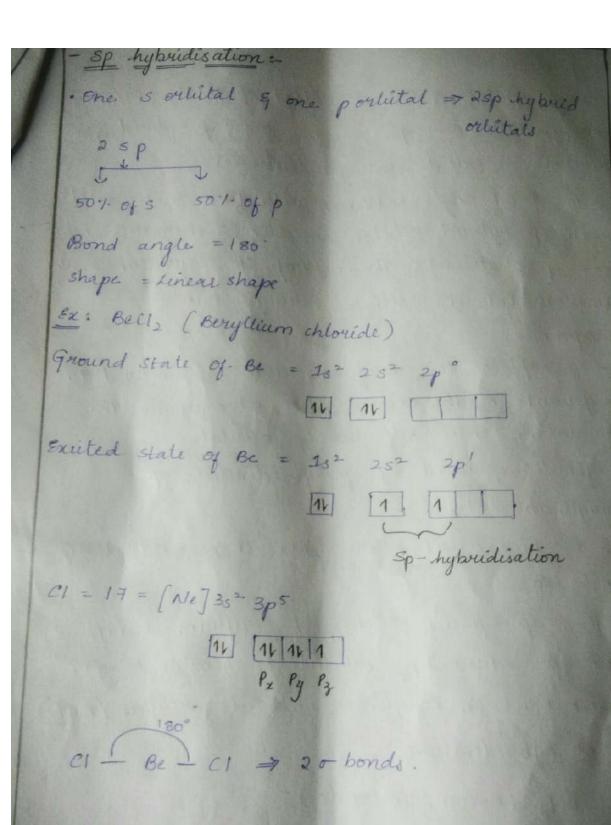


Principal

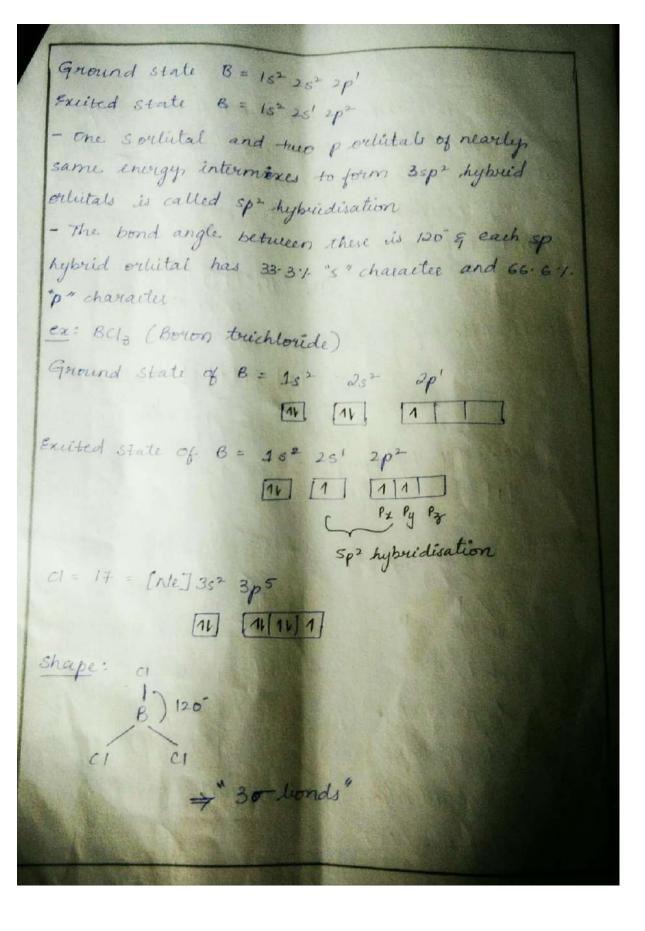
VAAGDEVI DEGREE & P.G. COLLEGE
Kishanpura, Hanamkonda.

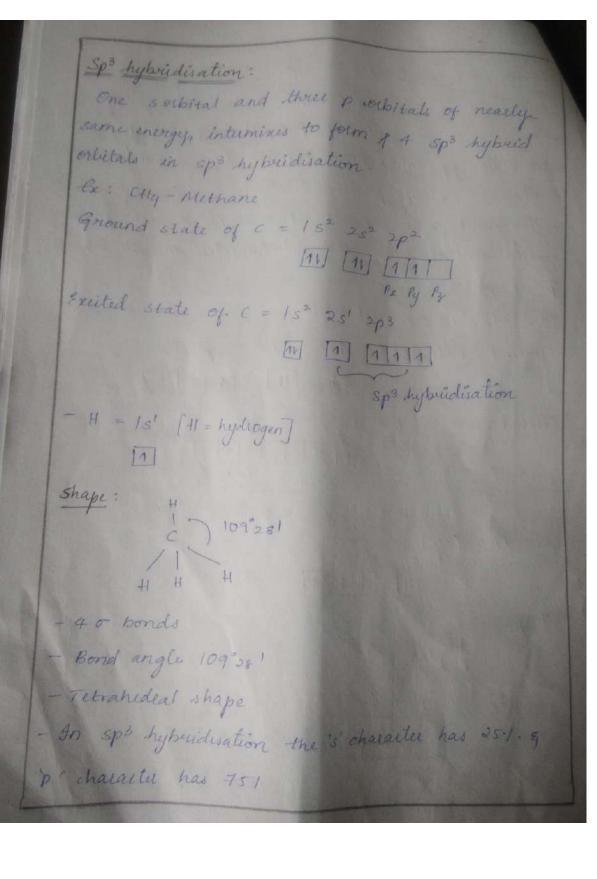
Department of Chemistry
VAAGDEVI DEGREE & P.O. COLLEGE
Hansnikons

- Hypridisation · Intermixing of atomic orlitals nearly same energy to form hybrid orbitals of equal energy and identical shape · it is proposed by pauling to explain shapes and bond angles of molecules which can it be explained by, VBT Jypes = -



Defination: One 's'orbital & one 'p' orbital of nearby same energy intermixing to form two sp hybrid orbitals is called 3p hybridisation. - The bond angle between with these is 180 and each sp hybrid orbital has 50% is character and 50% of p' character. The valency of Benyllium should be zero but it exhibits valency. "tuo" in its compounds. - To explain this Beryllium atom is considered to be ipresent in the excited state, when one of the 2 s electron enter into the 2px orbital. - This is explained by sp hybridisation of Berylliam. - The two orbitals are linear shape and at an angle 180. - There sp hybrid orbitals of Berylium overlap true 2ps , true 2px orbitals of chlorine to give two o bonds in beryllium chloride orbitals (Bell, - 3p2 hybridisation Ex: BC/3 (Boron trichloride)





Class : BSc

Group : BtZC

Subject : Chemistry

Topic : 1) Hunsdiecker reaction

2) Postulates of VESPER theory

Date : November 2022 – 2023

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086233179	JANGA SAI KRISHNA	Karolna
086233180	JAVAJI SANKEERTHANA	Six too Attour
086233181	KADASU SRAVANI	Gravani
086233182	KAMIDRI RAVITEJA	Ravi Teja
086233183	MAHAMMAD ROSHINI BEGAM	Robert
086233184	PATHURI SIJJU	Shia
086233185	SHAKAPURAM SAI RAM	Sai lan
086233186	SRIPATHI BHARATH	Bu
086233187	THALLA PRABHAS	Ban
086233188	THALLA RITHVIK	Rithrik
086233189	AISHA SULTANA	Sery

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Hunsdiecker Reaction

Solver Carbonylates are Reacted With Bromine in presence of cely solvent to Form Alkyl Bromides

Reaction

Mechanism!

molecule Schobrock & Paul proposed this theory. - Postulates of USEPR Theory: . The shape of a molecule depends upon number of valency, shell electron pair around the central atom Ex: Bell_ - Beryllium chloride C: Beic. el _ Be _ (1 · Number of bond pair electron and number of lone pair electron are depends on the central atom . Electron pair averanged around the central atom in such a way in which replusion between them is minimum · Electron pair in which bonding inbonding are called bond pairs which are not involved in bonding are called lone pairs. Replusion order: hone hone pair pair pair pair pair · hone pair occupies more space than bond pair Clone paie attracted by single atom and bond pair attracted by two atoms)

Class : BSc

Group : BtZC

Subject : Chemistry

Topic : 1) Types of Silicones

2) Applications of silicones

Date : November 2022 – 2023

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086233307	GADDAM KAVYA	Varieta
086233308	GANGADHARI AKSHAYA	Alex
086233309	KOUTAM SUCHITHRA	Gur
086233310	KUDURUPAKA RAMYA	Panye
086233311	MALLELA MEGHAMALA	mealia
086233312	MAMIDI NITHIN	Must
086233313	MOTHUKURI SADHIKA	Sidlieles
086233314	MUNIGADAPA NANDINI	Naudin
086233315	MUNIGALA DEEPIKA	Decother.
086233316	NEERATI BUNNY	Remmy
086233317	POLU AKHILA	Alchela
086233318	PRATHAPANENI NAVYA	Narager.
086233319	PURUSHOTHAM SUVARTHA	Senatha
086233320	RAJABOINA AKHILA	Den
086233321	RODDA ABHINAYA	Ableur
086233322	SATHU RAMYA SRI	lamya.
086233323	SIDDABOINA SHYAM SUNDER	Shaper
086233324	THOTA ANJALI	Anjata
086233325	UPPULA SRUTHI	etens !
086233326	VANGA SANDEEP	Seedes
086233327	VOLLALA SUSHMA	gur.
086233328	BANOTH HEMANTH	Heyant
086233329	BHUKYA RAKESH	Valueta
086233330	POTHA NIKITHA	Mebellie

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Kishanpura, Hanamkonda

SILICONES

- · Silicones are polymers of organometallic compound Containing a network of alternating Silicone and Oxygen atom
- · They are polymeric compounds having si-o-si linkage

PREPARATION

1. By use of frignard reagent

· Sicly [silane] react with frignard reagent and form 3

types of Silanes

· Mono Methyl Trichloro silane

. Di Methyl Dichloro silane

· Tri Methyl Monochloro silane

- 1) Sicl4+ H3C Mgcl -> CH3Sicl3+ Mgcl2

 (Mono Methyl Trichloro Silanes)
- a) H3 c Sicl3 + H3 c Mgcl -> (H3C) 2 Sicl2 + Mgcl2
 (Bi Methyl Bichloro silane)
- 3) (H3C), sicl, + H3C MgCl -> (H3C), sicl + MgCl, (TriMethyl Mono chloro silane)

silicones are classified into 3 types

- 1) Linear Solicones
- 2) cyclic silicones
- 3) cross linked silicones

oss linked silicones When alkyl Toichloro silone undergoes hydrolysis, the Obtained product undergoes condensation and form cross linked silicones of H3C +S1-CR + H3C-S1-OH + H0 -S1-CH3 H3C-Si-H0 - Si-CH3 OH J-4H2D OH HC- Si-0 4- 81-CH3 onviol to some H3C-Si-O - Si- CH3 OHOTO BID SHIPS

Properties of silicones

· Silicones are thermally Stable and better than organic compounds

· They are having hardness & inertness in them

. The Blastic nature of stricone rybber is greatear than that of Natural Rubber

· Silicones can with stand high temparature and sunlight

Applications of Silicones

4 types of applications are there

1. Silicone fluids 3. Silicone greases

2. Silicone Rubber

4. Silicone resins

when alkyl Twichloro silone undergoes hydrolysis, the Obtained product undergoes condensation and form Cross linked silicones on OH Hac Si-cl Hao Hac-si-oH + Ho - Si - CH3

CL Hao OH OH

Hyc-si-Ho - si-CH3

OH J-4HaO OH

Hyc-si-O - Si-CH3

Properties of silicones

· Silicones are thermally Stable and better than organic

H3C-S1-0 -- S1- CH3

. They are having hardness & inertness in them

- The Elastic nature of stheone rubber is greatear than that of Natural Rubber
- · silicones can with stand high temparature and sunlight

Applications of Stlicones

4 types of applications are there

1. Silicone fluids

3. Silicone greases

a. Silicone Rubber

4. Silicone resins

- 1. Silicone fluids: Simple Straight chain Silicones containing a0-500 units are used to prepare Silicone fluid:
- · They are used as water repellants as they contain organic side chain
- · Silicone Vapour are used in water proof building, glass material, papers and cloth
- a Silicone Rubber: These are long straight chain polymer with cross link
- · Silicone Rubbers are used as incubators in Electrical instruments and Electric Motors
- 3. Silicone greases: In aeroplanes silicones are used as greases or lubricant
- 4. Silicone resins: These are used in manufacture of paints and Enamels
- . Silicones are also used as Non-stick coating for pand Mould's for car tyres.

Class : M.Sc

Subject : Chemistry

Group : Organic chemistry

Topic : 1) Explain about electron transfer reaction of

i) inner sphere mechanism.

ii) outer sphere mechanism.

Date : November 2022 – 2023

Vaagdevi Degree & P.G Concec

Kishanpura, Hanamkonda

H.T.NO.	NAME	NOMINAL ROLLS - 2022 SIGNATURE
	KATUKURI SRAVANI	Ssavaní
22117-S-060 22117-S-0602		Dairy
22117-S-0603		Davya.
		Sneha
22117-S-0604		Prathynthe
22117-S-0605	A NOVEMBER	no musar
22117-S-0606	THOTA RAMYA	2 11 8
22117-S-0607	MERUGAVENI SATHISH	Dadhish.
22117-S-0608	BOKKA SPANDANA	Spardhama
22117-S-0609	VEERAGONI SRITHASRI	Sn-thasp)
22117-S-0610		Mounika
22117-S-0611	GODISHALA AKHILA	Akhdia
2117-S-0612		Dindhuja
2117-S-0612 2117-S-0613		Savanthi
2117-S-0614		morenoke
2117-S-0615		Murthian
2117-S-0616 2117-S-0617 2117-S-0618	GOSULA ARUN KUMAR AKULA KALYANI KUVARAPU ROHITH	Agun Kumas.
117-S-0619	LAKAVATH SAIDU	Saray
117-S-0620	JATOTH MANJULA	manufile
117-S-0621	MOTTE ANJALI	CAN
117-S-0622	MANCHALA BIKSHAPATHI	18ikshapathi
117-S-0623	DEVANAPALLY PAVAN	Pavan
117-S-0624	KAMPELLA NAVEEN	· Saveen.
17-S-0625	KANDULA RANJITH	Paulith
17-S-0626	TIPLE SRIKANTH	OBIN-
17-S-0627	GOGULA MOUNIKA .	Mounika
	BANOTHU CHANDANA	charefana Teja
	TEJA	Character 1 ga
	PERVARAM VAAGDEVI	() garden!
	VELPULA.SWETHA	swetta.
	GAJJALAKONDA DINESH	Dinish
-	D.PRAVALIKA	Formall.
	MD.NAZIYAFARHEEN	1 astras es
	BOORA ARCHANA	Archana
	NAGOTU PREMSAI	Fremson A
	4.DILEEP	
1-3-0030	II.DIDDEI	Dileep.

Electron Transfer Reactions of Complexes (Redox Reactions): These are the reactions in which the transfer of an Electron from ore atom to other occurs and hence oxidation States of Same atoms changes based on mechanism. → These reactions mainly classified into 2 types Desire sphere mechanism /Atom (or) Group transfer mechanism (or) Bridge activated complex mechanism. Duter Sphere mechanism / Direct & transfer / Tunneling mechanism Inner Scherc Mechanism: These are the reactions in which e transfer takes place through a builded group common to complex to the Shells of both the metal long. [" (NH3)5X]+ [c/(H20)6]+2+5H30 -> [c/(H20)6]+2 Oxidant Reductant Reduced product $C_0^{\dagger 3} \rightarrow 3d^6$ $C_8^{\dagger 2} \rightarrow d^4$ $C_0^{\dagger 2} \rightarrow d^7$ low spin finest High Spin f labile
labile
.+ 1 5 NH4 + [Cr (H20)5x] oxidised Product bymos &+ [(0,01) 00 = (1/81) (3.4 300 mos (1) 41 m C+3 -> da X= f, cl, Br, I, Soy, Nes, N3, Poy, Poy, Po, CH3000 etc. and of mitales is an it in the complete against of sine

[(H3N)5C0-x]+2 (C+120) (8 (H20)5) +2 +20 (H3N)5C0-x-C8 (H20)5] [(NH3)5CO(H20)] < +H20 [(H3N)5CO-X-C8(H20)5]+4 Bridged activated complex (" (H20)6) The (H20)3X) +2 oxidised product Redused Boduct → In the inner sphere mechanism proceeds through formation of bridged intermediate followed by dissociation and € Pransfer. * Step (1): The Herea agus chromium (11) [c'r (H2O)6] +2 loses a water molecule and forms a bridged activated complere. intermediate with (Co (NH3)5×J. * Step(2): In the activated buildged complex the transfer takes place from Cota ion to Cota through the bridge i.e \times . then the intermediate dissociates to give 6-co-ordinated $[Cr(H_{2}O)_{5}\times]$ complex and 5-co-ordinated $[Co(NH_{3})_{5}]$ complex. * Step (3):- The 5- Co-ordinated cot complex reacts with H20 molecule from the medium and forms. 6-co-ordinated penta amine agus cobalt (") complex i.e, (CH3N)5 Co (H20)] +2 complex * Step (4): The 6-co-ordinated Co(11) complexe. i.e, (+3N)5co(+20) Is unstable hence, it undergoes complete aquation to give

Hydraled Cobalt (11) Complex 1.e, [co(H2O)6]. In this mechanism, the electron is shifting from one metal (cx12) to another metal (cx13) with in the co-ordination sphere. Hence, it is called inner sphere mechanism and also the atom (x) Is transferred from one metal complere (Co (NH3) 5 X]+2 to another [Cr(H2O)6]+2. Hence it is called group (or) Atom transfer mechanism. → The & transfer is taking place only to the formation of the Bridge activated complex. So, this mechanism is also called as "Bridged activated complex mechanism". The rate of & transfer changes when there is change in the Halogen 1.e, soy 2.>ct>p--Fast 8low FZd-ZBrZZZSoga Slow Fast * Generalised Mechanism: Step(!): - formation of precursor bridged activated complex: Ox-x+Red-Hao-Hao Ox-x-Red Step(2):- Electron Transfer associated with Recoveringement. $0x - x - Red \longrightarrow 0x - X - Red$ Step(3): Dinociation of Bridged activated complex. $0x^{2} - x - Red + H20 \longrightarrow 0x - H20 + Red - x$ Rate & [Reductant] [Oxidant] : It is and order.

2) Outer ophere men of ions undergoing redor reaction is not altered. -> These reactions occurs by direct & transfer. * Generalised Mechanism: Step (1): formation of Precursor complex: Ox + Red = Ox | Red (Precursos Complex). Step (2): e transfer by rearrangement to give successor complex: ox || Red - ox || Red (Successor Complex). Step (3): Dissociation of Successor Complex to form Roducts: OX / Red = OX + Red Ex: $[fe(cn)_6]^{-4}$ $[fe(cn)_6]^{-3}$ $[fe(cn)_6]^{-3}$ $[fe(cn)_6]^{-4}$ $[fe(cn)_6]^{-4}$ [fe(cnFerroganide ferriganide

dow Spin of low Spin of inert

inert

""

Fe— CN + Fe — CN + Fe— CN long bond short bond short bond long bond. $[ox] + [Red] \longrightarrow [ox][Red] \longrightarrow [ox] + [Red]$ → In this mechanism, e is jumping from one co-ordination Sphere to another Co-ordination sphere. Hence, it is called as Outer-Sphere mechanism"

ASSIGNMENT RECORD

DEPARTMENT OF CHEMISTRY

ASSIGNMENT

VI - SEM

Class : BSc

Group : FsZC

Subject : Chemistry

Topic : 1) Explain about diseases

2) Explain about drug terminology

Date : February 2022 – 2023

ADIBA SAMREEN ERROJU SRAVYA SRI GUDEPU BINDUSRI	E. Sravya Sn	
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GUDEPU BINDUSRI		
	Birdit	
HABEEBUNNISSA BEGUM	H.B. Begun	
JALLIGAMPALA SATHYANARAYANA	Salgaranges	
KOYYADA SHIVANI	Shitants	
KURLA SOUMYA	Sh	
MACHARLA SARITHA	Sagrillo	
MOHAMMED RAHIYA	Rhamui	
NAMALA BHARANI	Blaceravi,	
POLABOENA SAI SUPRIYA	Saisuponya	DEGREE
SANA KHATOON	R.J.	18/8
SANIA MAHVEEN	Samia	A STATE
THANDA SATHWIK	Saltzile	12/1 3/20
VELDANDI POOJITHA	Possilie	The way
ARSHIYA NAZNEEN	Aerstva	MAMKOT
1	JALLIGAMPALA SATHYANARAYANA KOYYADA SHIVANI KURLA SOUMYA MACHARLA SARITHA MOHAMMED RAHIYA NAMALA BHARANI POLABOENA SAI SUPRIYA SANA KHATOON SANIA MAHVEEN THANDA SATHWIK //ELDANDI POOJITHA	JALLIGAMPALA SATHYANARAYANA KOYYADA SHIVANI KURLA SOUMYA MACHARLA SARITHA MOHAMMED RAHIYA NAMALA BHARANI POLABOENA SAI SUPRIYA SANA KHATOON SANIA MAHVEEN THANDA SATHWIK JELDANDI POOJITHA JAGARAYANA JAGARAYANA

19. - Explain about diseases 9 A Disease: - Any condition that impairs the coma thunding of a body or distunctioning of normal body process is called a disease The endogenous biochemical imbalance in humans animals and plants is called as a disease. Types of diseases: 1. Common diseases: Diseases which orise due to Changes in climate, place season. Envt Personal hygiene aspe called as common diseases. Cog: - Fever, cold, body Pains, headache, heart diseases this borne diseases 1- Diseases caused by pathogen, transmitted. Through air age termed de Air borne -cg: - Small Pox, chicken pox - varicella zosks virus, cold- Rynovirus, TB-Bacterial infection. Water borne diseases: Disease caused by pathogens transmitted through water are termed as water borne discouse leg: Typhoid - Salmonella Typhe backeria Chlocra - E-coli (-Escherichia Coii) Jaurdice - Hepatilis - A.

borne disease: Disease caused by insect borne like housefly, bugs, age called insect borne disease. 9: Malaria -- Araphilis mosquitoes deaque fever - Aedes mosquitoes Chicken gunia - chicken gunia virus Heridetory disease: These age genetic diseases Caused by genetic mutation that age heriditory. leg: woma syndrome - Agenetic chromosome disorder Bold head. Sickle cell accuerning (Damage of blood cells). Communicable disease ! Those disease Spread from Person to person cole Considered as communicable They may caused by micro organismsuch as bacteria, viruses, parasites, directly or indirectly from one person to another -) some age-transmitted through bites from insects while other cope caused by ingesting contaminated food or cooper. -Cg !- Tuberclases. Non-Communicable disease: These age nontransmitesible, that means they do not spread from one-to another person. Ag: Diabetic - Auto immune disease, Cancer etc.

19. - Explain about diseases 9 A Disease: - Any condition that impairs the coma thunding of a body or distunctioning of normal body process is called a disease The endogenous biochemical imbalance in humans animals and plants is called as a disease. Types of diseases: 1. Common diseases: Diseases which orise due to Changes in climate, place season. Envt Personal hygiene aspe called as common diseases. Cog: - Fever, cold, body Pains, headache, heart diseases this borne diseases 1- Diseases caused by pathogen, transmitted. Through air age termed de Air borne -cg: - Small Pox, chicken pox - varicella zosks virus, cold- Rynovirus, TB-Bacterial infection. Water borne diseases: Disease caused by pathogens transmitted through water are termed as water borne discouse leg: Typhoid - Salmonella Typhe backeria Chlocra - E-coli (-Escherichia Coii) Jaurdice - Hepatilis - A.

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Group : NDZC

Subject : Chemistry

Topic : 1) Nomenclature of drug

2) Classification of drug

Date : March 2022 – 2023

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086213905	BOINE PRATHYUSHA	Pravoye
086213906	GUGULOTHU ANITHA	Dru-
086213907	GUJULA SHIVANI	-24
086213908	KARISHMA	Karth
086213909	MANDADAPU DIVYA	Amys
086213910	MANKANI SHARANYA	Shoryen.
086213911	MATURI SRAVANI	Soargui
086213912	MUDDAM RUCHITHA	Reschilter
086213913	MUNIGANTI ABHINAYA	- Africe
086213914	POGULA MAHESH	Mahesh.
086213915	RAMANUJAM SWETHA	Switta
086213916	RAVANAVENI ROHITH	(P3
086213917	SHIFA SADAF	Sadal
086213918	SOMA SWAPNIKA	Sugaru
086213919	SUMAIYA NOUSHEEN	Nouelver
086213920	SYEDA SADIYA SAMAN	5.8horan



Principal
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Kishanpura, Hanamkonda.

Deseplain about drug nomendature and Explain about thiral names of drigs ? -A. Nomenclature of drugs: Names of drugs can be studied Under three headings: a. Chemical crames: All drugs age chemical substernes the have chemical names, depending upon their molares Structure During drug development of production, chemical names age used he chemical names age complex or general use. Eg: Acetyl salicylic acid or 2 - acetory benzoic acid is -lamiliar as aspirio. b. Generic names: - After - the production during chemical tobals and marketing generic names or hon-prospeiting names will be given l'importance for early ose of non. Hechnical person feg: - meetyl salkylic acid called as aspiring these comes will approved by various higher organisations such as food sporing administration (FDA) ste Trade come or Trade marks Commercial developers from pharmacoutical industry select—the names depending on drug grouping activity, sase to racall idrug action, the company kg these trade can given by the company should get acceptance from

the same name unless permission is granted.

eg: Aspirin is Sold as "wisprin"

[cont ocochs

Chemical name: a-acetoxy benzoic acid.

Trivial name: Acetyl salicylie acid (AsA)

Generic name: Aspirin.

Trade name: Bufferin, Ceatrin, Empirin.

Coeplain about classification of drugs?

Drugs age classified into two groups.

1) with seepect to the chemical structure,

1i) With respect to the therapeutic action.

Chemical Structure:

There is a relation blue chemical structure and biological activity organic functional group in the molecule age responsible for dury activity. Properties like governing trug action at action site, ability to xxx site, dissociation constant, isoterm and bio-isoterism the dry action at active site may be structurally specific of mon-specific. In non-specific drug biological characteristics depends a physical properties like Solubility, Vapour pressore is tribution. co. efficient, pt levels etc.

After administration of drug. The drug reaches to the active administration of drug. The drug reacher bution site, after that the factors like absorption distri bution, bio transformation and excretion occurs. ii) Therapeutic action 1a. chanotherapeotic agents !- Drugs used to fight against the Pathogenic organism and one called chemotherapeutic drugs or agents. I During the treatment of infections, diseases, drug will destroy the parasite without damaging the host b. Pharmacodynamic agents 1. The drugs which after the biochemistry of the body to regular the body age Pharmacodynamic agents -) These druge react selectively on the larger of the system of body. leg! Certial nervous system (cns), Cardiovascular system C. Vitamins &-Harmones 1-The supplements age Essential to the well being ofbody vitamins age indispensable micro nutrients that organisms cannot produce by themselves small quantities of vitamin age required for proper function of melabolism harmones serve as chemical messengers from one part of an organism to another. Vitamins 1- Total 13-types of vitamins age essential these are categorized into two groups as one 15 water soluble and another is fat soluble.

Class : BSc

Group : BtMiC

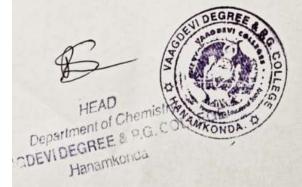
Subject : Chemistry

Topic : 1) ADME (Absorption, Distribution, Metabolism and

excretion)

Date : April 2022 – 2023

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50. Caplain about nome Enbarption, Distribution, Metabolism and Guardians of drugs? Absorption: Movement of a drug-from the site of administration to bood stream is called "Absorption" of drug Generally most of the drugs age absorbed in small intestinal but drugs spend much less time here due to small surface cross this bi-hyer to reach it's site-Acidic drug absorbed in intestifie. Routes of administration of drugs: The way of texing drug into body system is Called drug administration. 1. orally drugs: Majority of drugs age taken orally oral Medicines takes agound somin to Enter Into blood stream and Show it's activity. It is most common method Oct- Tablets, capsules, Syrups, chewable tablets etc. a. Paranternal drugs . The drugs age directly injected into - the body is called as "parental drugs". these drugs age oral administration of drugs. a. Intra muscular (Im): Drugs which age injected into muscles age called as Intra muscular drugs. b. Intravenous (Dr): - Drugs which injected into veins age called Intravenous drugs. c. Subcutaneous drugs 1- Drugs which age injected under skin age called substaneous drugs. ext Insolin.

3. Topical / Cutaneous drugs: Drugs applied to skin age called topical drugs. Due to chemical prepridrugs age absorbed either Passive diffusion: This is facilitated by the long gradient across-the membrane the drug moves from higher conco to lower conco. It dosen't require on Critra carrier or Extra Energy. water soluble agents use aqueous pares in the membrane. - Lipid (text) Soluble diffuse directly through membrane. Active transport :- in this process specific carriers carry the drug that closely resemble the Struture of the naturally occurring Metabolities specific from Carrier It is capable of transporting from low to high conco compartments Distribution: Movement of drug to various fart of body is called distribution. The distribution ability depends on strength of the body. -) Protein bonding. If the bond is strong the distribution capacity is less.

These vitamins come from the food on the other hand body can produce Vitamin Dylk. Water Soluble vitamins: These vitamins get dissolved in water easily. In circulation it will be utilized by body and excepted from wringry outpot-As-these Vitamins cannot be strond in the body consumption of them on daily basis eg: Vitamin -1, B, c etc. fat soluble vitiamins :- fat soluble vitamins get dissolved in lipids mainly these vitamine get absorbed in intestinal body and Store fet soluble vitamins In moderate limits they help the body in different Metabolism but when they - Enceed the limits causes hyper vitaminosis and when they lack couses hypo vitaminosis can be caused by fat soluble vitamins only. Homones: - Homones age body chemical messangers they travel in the blood stream to tissue or organs. they work slowely overtime and Effect many different processes including growth a development, metabolism produced by glands in multi-cellula, organisms that age-transported by the circulation sysstem to target distant organs to agulate physiology and behaviou, Est Testosterone, Insulin, Estrogen, oxylocinete

> Polar drugs age easily distributed than non Polar drugs. Distribution of drugs from blood stream to Effector Site: When the drug is administrated either by intra Vascular injection or by absorption from any of the Vagious esta cenular sites, drug is subjected to different distribution process to lower the plasma concentrate. Drug distribution is reversible transfer of a drug blw one compartment to another. Planna - protein binding :- The binding of drugs to Plasma protein is reversible compunds can bind to albumio x-1-acid glycoprotein GAGP) or lipoprotein -> Binding to plasma protein can effect the pharma Cokinetics of the drug substances. Protein + Drug = Drug - Protein complex. only the part of drug which is unbound to protein can show activity. But wasferin drug is used to prevents colotting of blood which is 97% bound to protein, remaining 8%. unbounded drugs shown action. -> If the bonding blw drug and plasma proties is loss. then drug can easily travel or diffuse into the cell.

Factors affecting drug distributions 1. Blood - flow state 2. Moleaue Size 3. Polarity. 4. Binding to Serum Proteins forming Complex. Metabolism: Initial ding consumed will be converted into new Compound and this process is called as Metabolisms Compounds begin to break down as so on as-they enter the body. Drug Metabolism is carried out in liver by redox enzymes for majority of small moleule Metabolities are pharmacologically inert. Dphase-I-rxn (Non-Synthetic (or) Non-conjugative Drug transforms by the process of oxidation reduction and hydrolysis in presence of enzymes the change in drug molecule generally result in introduction of a functional group molecule or the Exposure of a new-functional group molecule sorall polar-functional group like -OH, NH,, -SH, - COOH etc. age zither added or unmasked on the lipid Soluble drug, so that the resolting product may undergo Phase - I reaction. -> phase I xx results in activation, change or inactivation of drug.

ii) Phase I reaction (synthetic Phase): This is the last step in detouification reaction and almost always results in loss of biological activity of a compound this may be process by One or more of phase one on this involves Conjugation of a functional group of Molecules with hydrophilic Endogenous substances. " Formation of conjugation". these age form with Endogenous substances such as combohydrates one amino acids with drugs or it's metabolities formed In phase - I rxn- In this phase xn attachment of 3 mail polar endogenous molecules like gluconic acid, Suphate Methyl, amino acids etc. to Either unchanged drugs or phase I products. These age called as conjugates", and these age water Soluble metabolités, which age readily Excreted from body. Climination Excretion: unsed, Modified Metabolities and toxic remains age senoved from the body by the way of excretion generally Elimination is through wrine or in excreta some of these compounds expelled. through lungs by trihaling sweating otherwise.

ASSIGNMENT RECORD

2022 - 2023

DEPARTMENT OF CHEMISTRY

ASSIGNMENT

IV-SEM

Class : BSc

Group : FsMiC

Subject : Chemistry

Topic : 1) Job's method

Date : February 2022 – 2023

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086223406	KAMBHAM MAHESH	Ma	CODE
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086223415	VANGA MANVITH	manuello -	A

Determination of composition of complex by continuous variation method (02) JOB's method.

JOB's method:

Job's method is used to determine the composition of a complex Different experiment steps are involved in this process are.

(i) Prepare ten solutions in ten different test tubes of a fixed volume of the complex

(ii) In each test tube different amounts of metal and ligards are to be taken

(iti) Let the total no volume of the complex prepared in each of the ten solutions is 10ml.

S. ND.	1	2	3	(A)	6	6	(F)	8	9	(i)
Volume of metal ion (ml).	0	J.	2	3	4	5	6	7	8	9
Volume of ligared (ml)	10	9	8	ন	6	5	4	3	2	1.

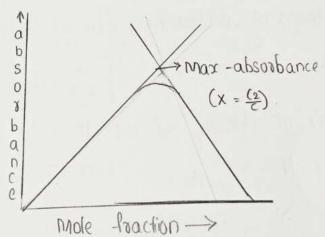
The sum of the concentrations of the ligand (C1) and metal (Cm) is constant.

concentration of metal ion = CM

concentration of Ligand = CI

concentration of complex (c) = $CJ + CM \longrightarrow \textcircled{1}$

- (iv) The optical density (absorbance) of each of the solutions is measured by spectrophotometer.
- (v) Values of mole fraction of ligand are plotted against the optical density (absorbance) of Solution.



Now, if the formula of the complex is MLn, then.

$$n = \frac{CL}{Cm} \longrightarrow \mathfrak{D}$$

divide the equation (1) by 'C'

$$\frac{C1}{C} + \frac{CM}{C} = \frac{Q}{Q}$$

$$\frac{C_1}{C} + \frac{C_M}{C} = 1 \longrightarrow 3.$$

But
$$\frac{C_1}{c} = x$$
 (mole floction) $\rightarrow A$.

Substitute (A) in (3)

 $x + \frac{C_M}{c} = 1$
 $\frac{C_M}{c} = 1 - x \rightarrow 6$

doing $\frac{A}{6}$
 $\frac{C_L}{C_M} = \frac{x}{1 - x}$
 $\frac{C_L}{C_M} = \frac{x}{1 - x} \rightarrow 6$

Acc to equation-(2) CL =n; when written in equation -(6)

$$D = \frac{x}{1-x}$$

based on 'n' value. "I can be possible to determine the composition of complex.

Limitations;

- (1) It gives run reliable results when more than one complex is formed in the system.
- (2) It is applicable when there is no thange in volume on mixing the solution of the metal ion and the ligand.

Class : BSc

Group : NDZC

Subject : Chemistry

Topic : 1) Structure elucidation of glucose

Date : March 2022 – 2023

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086223152 086223153 086223154 086223155 086223155 CHEPURI DEEKSHITHA 086223156 CHIRRA SHIVA KUMAR 086223157 086223158 GUNDA ANKITHA SREE 086223159 086223160 KASHI RASHMIKA 086223161 KAUSAR FATIMA 086223162 KURIMINDLA SIRICHANDANA 086223163 MAZEEN FARHA 086223164 NEHA AFREEN 086223165 PASUNOORI VIJAYALAXMI 086223167 POLUDASARI PRAVALIKA 086223168 PONGANTI AAKANKSHA 086223169 THUMUGANTI APARNA 086223170 ZAINAB GHAZALA 086213365 PULICHERU BHARGAVI Principal VAAGDEVI DEGREE & P.G. COLLEGE	086223151		
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Structural eluctolation of Glucose (open chain Structure)

- -> Molecular formula GH1206
- -> Also called Dentrose / Grape Sugar
- -> -flame test -> Aromatic
- -s Solubility test -> Casbohydrates
- -> Stemeture of Carbohydrate.

Glucose Structure

CHO

H-C-OH

$$CH-C-H$$
 $CH-C-H$
 $CH-C-H$
 $CH=C-OH$
 $CH=C-OH$

or Evidence for presence of Carbonyl group.

anhydeide

CHO

H-C-OH

$$OH-C-H$$
 $OH-C-H$
 $OH-C-OH$
 $OH-C-H$
 $OH-C-OH$
 O

* Evidence for presence of Aldehyple group

(Tollen's Reagent]

CHO

H-C-OH

HO-C-H + Ag20 CHOH) 4 + Ag1

H-C-OH

Tollen's CHOH) 4 + Ag1

H-C-OH

Tollen's CHOH) 4 CHOH

Reagent

CHOH) 4 Cuso ved ppt

Cuprous (CHOH) 4

Oxide

(Fehling's Reagent) CH20 H

* Evidence for presence of 1° Alcohol

Oxidation:

Glacose

HND3 Sacchasic acrol

D'C-H

HND3 COOH

(CHOH) 4

COOH

(CHOH) 4

COOH

CHOH) 4

COOH

CHOH) 4

COOH

COOH

CHOH) 4

COOH

COOH

CHOH) 4

COOH

CHOOH

* Evidence for straight chain of Glucose. Glucose HILP > n hexane 6' Carbons are present It Evidence for presence of "OH" group of god ration on left side Gluisse + 3 phenyl hydraxene -> Gluissaxone. of Open Chain structure of almose. H -c-OH 0H-C-H Limitations of open Chain Radion. Structure. -> It fails to emplois the following 1) It does not react with Nation [Esodium biseuphate) 2) It does not react with Ammonia (NH3) 3) Asomatic nature (cycle) forms flame test 4) Mutarotetion property. s) can't restore coloure of sthiff's reagent.

Class : BSc

Group : BtZC

Subject : Chemistry

Topic : 1) Derive rate constant equation for first order reaction

Date : April 2022 – 2023

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086223956	NEERUDU NAVYA	k-Satheiko	
086223957	RAGHUSALA NIHARIKA	1	DEGREE
086223958	RAKAM ASHWINI	R. Nihazika	S Joseph Con
086223959	RANGU SHIVAKRISHANA	Stims	
086223960	SUTHARI ROJASRI	Pelash	
086223961	TALLAPALLI REEMA		10/2300
086223962	VOLADRI VYSHNAVI	Keny	
086223963	YEDDU SIRI	500	
086223964	YERRA VASAVI	Vagari	
086223965	MADISHETTI	(W)	

9) Desire the late constant equation for first order reaction. The relations Whose rate as determined by the change of only I concentration term are known as 1st order reaction

-A --> products at +=0 ; a 0 affectime it is ; a -x0

gate of seaction of (reactants)"; here not 8 = dr dr x (a-x) olm = k, (arx)

Where

k, = first oxder rate constant

dn = Ki.dt

on integrating the above equation 5 dm = k, 5 dt

- (In (a-n)) = k (t) + c

 $-\ln(a-x)=kt+c\rightarrow 0$ where (= integration constant Klhen +=0; Then x=0; Sub in equation - 0

-In
$$(a-0) = k(0) + c$$

-In $a = 0 + c$
-In $a = c \rightarrow 0$
Sub eq $0 \approx 0$
-In $(a-1c) = kc - ln a$
In $a - ln (a-1c) = kc + ln a$
In $a - ln (a-1c) = kc + ln a$
In $a - ln (a-1c) = kc + ln a$
 $k_1 = \frac{1}{c} = \frac{$

i) Units:
$$k_1 = \frac{9.303}{t} \log \frac{a}{(a-n)}$$

$$k_1 = \frac{3.303}{sec} \log \frac{a}{(a-n)}$$

$$k_1 = \frac{3.303}{sec} \log \frac{a}{(a-n)}$$

21 life! - The time taken to complete 50% of a goartion called half life

K1 = 3.303 log (a-x)

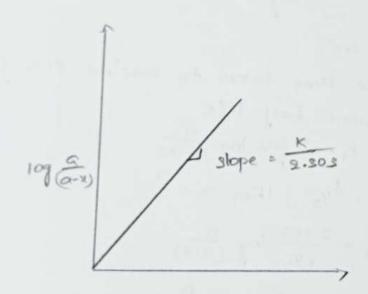
When $t = \frac{1}{2}$; Then $x = \frac{a}{2}$

$$k_1 = \frac{9.303}{t^{1/2}} \log \frac{a}{(a-x)}$$

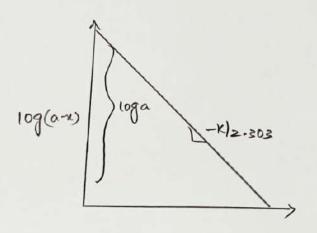
$$k_1 = \frac{2.303}{11/2} \log_2$$

" for a first order earthon, half life is independent on the mittal contentration of exactions.

The line is paining through origin. Then he slope is equal to K



shape 93 equal to $-\frac{k}{2.208}$.



ASSIGNMENT RECORD

2022 - 2023

DEPARTMENT OF CHEMISTRY

ASSIGNMENT

II– SEM

Class : BSc

Group : MiCCS

Subject : Chemistry

Topic : 1) Explain about SN¹ reaction

Date : March 2022 - 2023

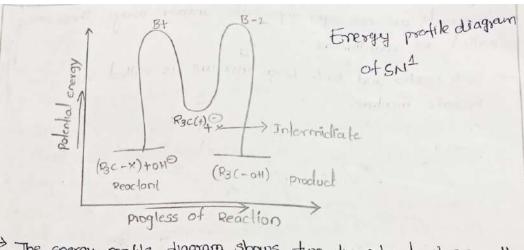
HT NO	Student Name	Signature
086233651	ADAPA KOUSHIK	Koushik
086233652	ALLURI POOJITHA	A. Pagithe
086233653	DIVITI SRITEJA	South
086233654	GANGINENI SAGAR	2
086233655	ILAVENI HARIPRIYA VYSHNAVI	Mitnavi
086233656	JADI THARUN	I. Thalun.
086233657	KODAPAKA ISHWARYA	Bacuarya.
086233658	KORUKOPPULA SINDHU	Bindly.
086233659	MARRI AKHILA	Akale
086233660	MEDIDHI ANUSHA -	Loughe
086233661	NADENDLA AKSHITHA	1-AKS office
086233662	OGGUMALA SRAVANTHI	Bencol.
086233663	PODILA LOHITHA	Palle
086233664	THANDRA BRUNDA	Burn
86233665	VALGUBELLY SANGEETHA	Aronas
86233666	VANGARI DATTATHREYAH	Na death

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Hanamkonda

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Kishanpura, Hanamkonda.



- The energy profile diagram shows two transitinal stage with carbocation as intermediate
- -> In the first step Ionization of alkyl halide result in the formation of carbocation
- -> it is thighly endothermic and it requires thigh activation energy
- -> Due to high activation energy it is a slow step Hence the rate the reaction depends upon the step.
- In the second step (or) second transitural stage the nucleio phyle attack the carbocation is highly exothermic It has low activation energy so it is the first step.

Stereo chemistry sni reaction

sn' reaction the carbo cation produced the carbocation is sp2 hydriclised due to these reason the nucleuphyle is attacked

to the carbocation towards the left side are towards

right side and produced resemic mixture. The

compounds are non super impossible mirror image these are

called as constru called as trantiomers.

>> 50% Dextro and 50% Levo mixture is called as Recemic mixture.

EIT 30 Butyl Bromide

3° Butyl Bromide .

3° Butyl alcohol

Mechanism:

Step 1:
$$H_{3}c - c - Br$$
 CH_{3}
 $Slow step$
 CH_{3}
 $Rate$
 CH_{3}
 $Step 2: CH_{3}$
 $Step 3$
 $Step 3$
 CH_{3}
 $Step 3$
 $Step 3$
 CH_{3}
 $Step 3$
 St

> Testa Teristary Butyl Bromide reach with aquorous ptossium hydroxide and produce teritary Butylal alchol > This reaction lakes place in the presence of protete solvent. > In this Reaction low consentration nucleiphyle > This Reaction takes place in two steps > In the 1st place teritary butyl bromide is converted to teritary carbocation in the slow step and late determin -ing stop. The rate of the reaction depending upon the concentration of teritary butyl bromide so it is called as rate determining step. In step 2 unstable carbocation is react with low concentration nucleiophyle in the test step and produce and territary alochol and butyal alchol Rate & Hac -c-Br dend for Smedlobbas Vidpirl as he high activation energy it is a siet stop and rate determined ation step and rate determination step (10) barbotto (Slymboll) Bromide tentary budy contraction is highly exchanic and has low activation energy so it is a first stop

Class : BSc

Group : BZC

Subject : Chemistry

Topic : 1) Ostwald dilution law

Date : February 2022 – 2023

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086233303	BASHABOINA POOJITHA	Pagny
086233304	DEEGUNTLA GANESH	100 m
086233305	DENKANI NITHIN	Nilles
086233306	DONGRE SREEJA	Sieca
086233307	GADDAM KAVYA	
086233308	GANGADHARI AKSHAYA	Konyer
086233309	KOUTAM SUCHITHRA	Akshya
086233310	KUDURUPAKA RAMYA	Poula
086233311	MALLELA MEGHAMALA	Mealur.
086233312	MAMIDI NITHIN	Nilla
086233313	MOTHUKURI SADHIKA	S-d/
086233314	MUNIGADAPA NANDINI	Marvall.
086233315	MUNIGALA DEEPIKA	Densilen
086233316	NEERATI BUNNY	Day of
086233317	POLU AKHILA	-Akkla
086233318	PRATHAPANENI NAVYA	Noyer
086233319	PURUSHOTHAM SUVARTHA	Sayaeth
086233320	RAJABOINA AKHILA	Akhile
086233321	RODDA ABHINAYA	Abhinay
086233322	SATHU RAMYA SRI	Layani
086233323	SIDDABOINA SHYAM SUNDER	Shagurund
086233324	THOTA ANJALI	-Angreli.
086233325	UPPULA SRUTHI	Sample
086233326	VANGA SANDEEP	Dandel
086233327	VOLLALA SUSHMA	Suche.
086233328		teman n
086233329	BHUKYA RAKESH	ropell.
0862333330	POTHA NIKITHA	Mikath



VANGDEVI DEGREE & R.G. COLLEGE Kishanpura, Hanamkonda.

HEAD
Department of Chemistry
VAAGDEVI DEGREE & F.G. S.J.L. S.C.R.
Have the control of the contro

ostoald's dilution daw; electrolytes mus according to asteald's dilution Law K= (A) (B) initial Irrole
After (1-x) , ~ ~ X= [A+] [B-] [AB] K = dV d (1-4) K = [22 V(1-x)]

concentration of any electrolyte

$$= K = \frac{c \times 2}{(1-x)}$$

$$= (1-x) \text{ negligible } C = \frac{1}{x} \text{ concentration of solution}$$

$$= K = C \times 2$$

Class : BSc

Group : BtMiC

Subject : Chemistry

Topic : 1) Interhalogen compounds

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086233004	ANABHATHULA UMESH	Unugh
086233005	ARUKALA RAHUL	Rahul
086233006	BANOTH SWAPNA	Swappa
086233007	BOMMATHI LASYAVARDHINI	tasya.
086233008	BUKYA SWATHI	Sevatho
086233009	KARANGULA SUCHITHA	Sychrha
086233010	KUNAL BHADRA	Bhadia.
086233011	KUNDARAPU HARINI	Harsini
086233012	MANDA MOKSHAGNA	molestages
086233013	MANDA RAVEENA	Raisena.
086233014	MANTHENA ROHITHA	Robitha
086233015	MEDIPELLY SOUMYA	Country
086233016	MEENA RINKU	Renku
086233017	MEKALA VINITHA	Voulta
086233018	SETTY SATHWIKA	Sathwilea
086233019	SHANIGARAM SAI VAMSHI	Saivansw
086233020	THOKALA ASHWINI	Asserting
086233021	NERA AISHWARYA	Allu



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Department of Chemistry

VAAGDEVI DEGREE & P.G. COLLEGE
Hanamkonkis

Interhalogens: surfable conditions to form a new type compounds know as inter halogen compounds (or) inter halogens. -> General formula of inter halogen compounds in Axa

A = less EN halogen x = more EN halogen classification : Inter halogen are classified into 4 types

tw, Ax3, Ax5, tx+

AX	-A×3	-A×5	-Ax ₁
1cl	ICI3	Ifs	174
CJF	CIF3	BIF3	_,4
BrF	BrF3		
BrcI	-		
JF	_		

preparation:

1 Direct combination:

By the direct combination the two halogens to form inter halogen compounds.

$$CJ_2 + F_2 \xrightarrow{200°c} 2CIF$$

$$J_2 + Cl_2 \longrightarrow 2ICI$$

$$Cl_2 + 3F_2 \xrightarrow{300°c} 7CIF_3$$

$$Br_2 + 3F_2 \longrightarrow 2Br_F_3$$

$$Br_2 + 5F_2 \longrightarrow 2Br_F_5$$
where Method:

By the action of a halogen on a lower interhalogen to form another interhalogen compound.

$$1f_{3} + F_{2} \xrightarrow{200-300'c} 1f_{7}$$

$$ICI + Cl_{2} \longrightarrow ICI_{3}$$

at amount out all notionalmos tout all-

Class : M.Sc

Subject : Chemistry

Group : Organic chemistry

Topic : 1) Florence life time and Florence quenching.

2) Write about Carbozole

Date : March 2022 – 2023

Vaagdevi Degree & P.G Concec

Kishanpura, Hanamkonda

H.T.NO.	NAME	NOMINAL ROLLS - 2022 SIGNATURE
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22117-S-0602		Dairy
22117-S-0602		Davya.
		Sneha
22117-S-0604		Prathynthe
22117-S-0605	THE STATE OF THE S	va musar
22117-S-0606	THOTA RAMYA	2 118
22117-S-0607	MERUGAVENI SATHISH	Dadhish.
22117-S-0608	BOKKA SPANDANA	Spardhama
22117-S-0609	VEERAGONI SRITHASRI	Snithasi
22117-S-0610	THE STATE OF THE S	Mounika
22117-S-0611	GODISHALA AKHILA	Akhdia
		Mindhuja
2117-S-0612 2117-S-0613	DAMERA SRAVANTHI	Deavlanthi
2117-S-0614		
2117-S-0614 2117-S-0615	JELLA SHRUTHI	Mouthian
2117-S-0616 2117-S-0617 2117-S-0618 2117-S-0619	GOSULA ARUN KUMAR AKULA KALYANI KUVARAPU ROHITH LAKAVATH SAIDU	Agun Kumas.
2117-S-0620	JATOTH MANJULA	maurile
2117-S-0621	MOTTE ANJALI	· Con M
	MANCHALA	Bikshapathi.
117-S-0622 117-S-0623	BIKSHAPATHI DEVANAPALLY PAVAN	
	KAMPELLA NAVEEN	- Savan
E CONTRACTOR OF THE	KANDULA RANJITH	Paul H.
	TIPLE SRIKANTH	300hi
	GOGULA MOUNIKA .	Marthiba
	BANOTHU CHANDANA	Mounika,
, ,	ГЕЈА	charefana Teja
	PERVARAM VAAGDEVI	Dandens
	VELPULA.SWETHA	swetha.
Section 1 and the section 1	GAJJALAKONDA DINESH	Dinish
	D.PRAVALIKA	Formall!
	MD.NAZIYAFARHEEN	1 asidiel -
	BOORA ARCHANA	Archana
	NAGOTU PREMSAI	Fremsone A
	4.DILEEP	Dileep.

i) Flourescence life time and Flourescence quenching? Flourescence life time (FLT) is the time a flourophere spends in the excited state before emitting a photon of returning to the ground state.

FLT can vary from pico secondo to hundreds of Manoseconds depending on the flourophere FLT is not an infinsic property of a flowsophere, FLT does not depend upon flows there concentration, absorption by the sample, sample thickness, method of measurment. The flourescence life time is calculated by. the following equation.

T = 4/ke+kor. T=Flourescence life time. Ke=Radiative decay rate. Knr = Non Radiative idecay rate.

Flaurescence Quenchming: Decrease of flourescence intensity by interaction of the excited state of the flouresphere with it's surrange is known as quenching. It is classified, into stypes i.e ...

1) Collision/pyramic Quenching! In this process collision returns flourophere to Ground state without photon emission 2) static quenching! In this process excited state. Compounds or e-to-med as a complex non-flouroscend material. property suits

3) Apparent overching! Turbidity optical density of flouriex the

2) Write the Applications of Flourescence. Spectroscopy? Es and O Indicator tor DNA Hybridisation of In DNA Hybridisation of the thousand and quenever molecules become attached to quends of single strand DNA & close to one another Causing's a loop. As DNA becomes hybridised & attaches to another single strand DNA chain the flourophere querchers. Complex is cleaned allowing for the flourophore to generate light.

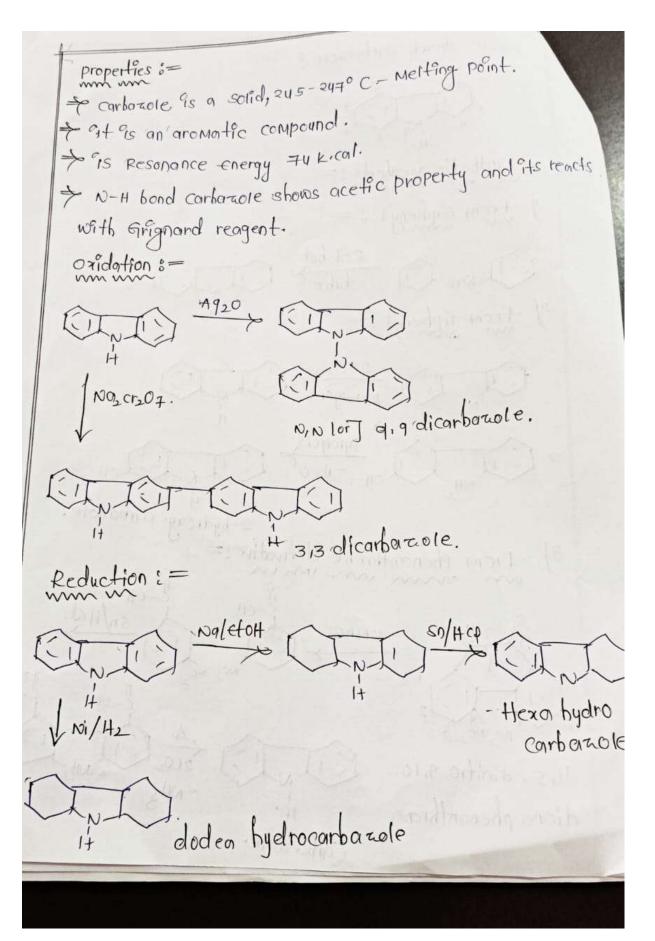
@ DNA Interaction with metal ion!

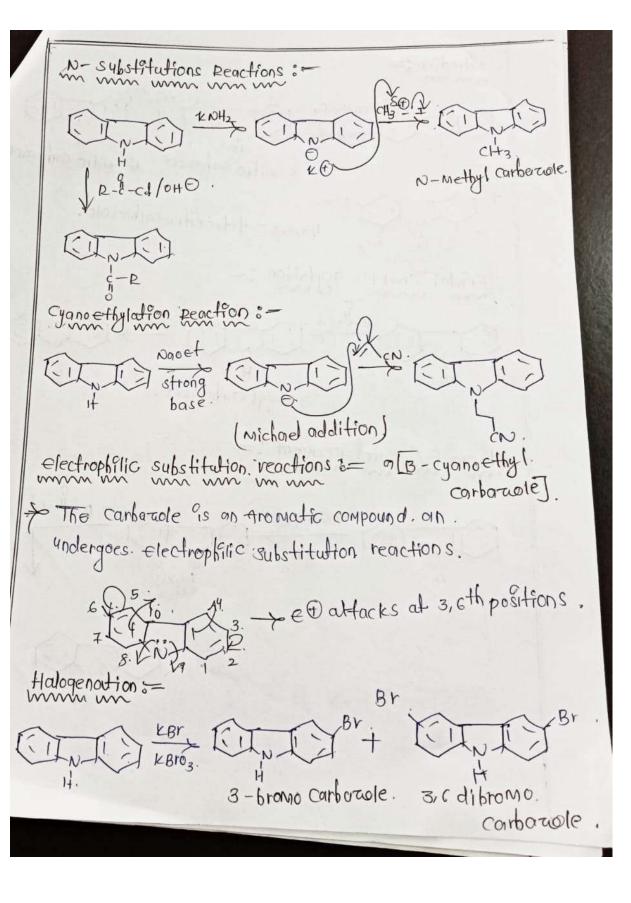
Interaction of DNA with metal ions also identified with the help of flourence Quenching Ex! The ends of short DNA tragment connected with a flourescent due & quencher through a covalent bond, are divided in a solution. The Dye is producing light

3 DNA Enter action with Drugs!

of drugs with DNA usually causes a significent en ancement of the flourescence intensity as a consequence of different factors. Thus in the case of interchelating drygs the molecules are insexted into the base stack the helioc.

write about carbance? synthetic methods := from Biphenyl: = That I ruber I 2) from diphenyl := Dyrolysis Dyrolysis 2-hydroxy carbaxole. from phenanthrene derivative = 4,5, dinitro 9,10. dione phenomthrone. Carba-aole.







VAAGDEVI DEGREE AND PG COLLEGE

Affiliated to Kakatiya University

Accredited with 'A' grade by NAAC



DEPARTMENT OF ENGLISH



BSC II Semester Was; A Chieving Gender egna 23/09/2023.



VAAGDEVI DEGREE & P.G. COLLEGE

Kishanpura, Hanamkonda III semester Nominal Rolls 2023-2024



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2	24-4-913	086244002	BOLUMALLA RUCHITHA	Righter
3	24-4-903	086244003	BYRABOINA RISHI	Jost Class
4	24-4-904	086244004	GULLA SAKETH	G. Saluth
5	24-4-915	086244005	KANKANALA VARUN REDDY	Corn
6	24-4-911	086244006	PONNALA VINAY	vinay
7	24-4-917	086244007	THOTAPALLY RANJITHA	T. Ranjithe
8	24-4-916	086244008	VILASAGAR RAJESH	Dagoth
9	24-4-902	086244009	BETHAMALLA RACHNA	B.Rachana
10	24-4-905	086244010	DASARI UDAYKIRAN	Vagein
11	24-4-910	086244011	ELLAVULA KARTHIK	E. Xuttil
12	24-4-906	086244012	LAKKAKULA AKSHAY	Alsoher

Principal Vaagdevi Degree & P.S. Golden Kishanpura, Hanamsondo

10 2023 - 24 Assignment

BSC & Semester. holiday vituals of traditions. 103/2024.

VAAGDEVI DEGREE & P.G. COLLEGE

Kishanpura, Hanamkonda V Semester Nominal Rolls 2023-24

Course MIZC (EM)

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3	22-3-708	086223603	BOGE VIVEKNANDAN	Vind
4	22-3-714	086223604	GUNTI SATHWIKA	clathwina
5	22-3-713	086223605	KANNURI VAMSHIKRISHANA	Kamshi
6	22-3-703	086223606	KARNE SOUJANYA	K. Svijanja
7	22-3-707	086223607	KOLIPAKA VIVEK KUMAR	Divete
8	22-3-704	086223608	MALLEPELLI BHAVANI	Bhavare
9	22-3-712	086223609	MANDALA VENNELA	M. Claude
10	22-3-709	086223610	MOHAMMED ALTHYAF RAHMAN	A de
11	22-3-719	086223611	MUDEPELLI SANDEEP	Sadeep
12	22-3-701	086223612	GOLLAPELLI ASHWITHA	G. Ohise.

Vaagdevi Degree & N.G. Collic

Kishanpura, Hanamkonda



Viswambhara Educational Society's

VAAGDEVI DEGREE AND PG COLLEGE



(Affiliated to Kakatiya University) Warangal ,Telangana.



Fieldtrips and Educational tours organized by Department of Microbiology

MICROSIOLOGY

SSIGNMENT

NAME

:- VUSHAKOYALA MAVYA

COURSE

:- BIMIZ

SEM

:- VI

HALL TICKET No.: - 086223810

TOPIC

:- WATER- BORNE

DISEASES

Sd. Jest

A- Ludadulan

VAAGDEVI DEGREE & P.G. COLLEGE Kishanpura, Hanamkonda.

			To a second
	WHIER-IDORNE	CORNE LASERSES	The way of
		Exil through selection in the selection of which is in the selection of th	End have
Topzoo:			
Disease 2, Journalistion	Microbial Agent.	Some of Agent in Water Supply.	General Simplem
Acanthamoeba			Bye Dair, eye rednen. blung villen.
Kenatitis (Cleaning of (A) castellanii &		amoeda found in many types of	sensitivity to light, senoation of
Contact lenser with			something in the eye & excensive
Conforminated water)	o the point is	Lew ace water, top water, Lumming	-teaung.
-	- (-	305-601
- moebiasis	Notozoan	. 1	Abdominal ditempet , jakque,
(hand-to-mouth):		rtee, supply,	weight low, olawhea, blooding,
		Laliva tomoler	(ever.
Cyclospolasis	Reference parable	Reparan parasile Riwage, non Heated dunding	Gamps, nausea, vomiting, much
James Charles	(Cyclospola conclemente) water	boater .	aches, fever 20 patigue.
Maeglenaus	Betezean	blate sport, non-chlosinated	Headache, vomitting, confusion, loss
(Delman amorde	(Naclean Jones)	water	Spalance, light sensitivity, hallucha
meningo encephaleta	(Cynt like-appearance)		rhons, datique, weight low, fever to
(PAMI) (Nacal)	Chief and	1 F = 1 F	coma .

Dysendery	Salmonellosis	Cusmmes eas)	ampulabacterous	Pagasinistron	Bacteria:	· SISOBBOOKERSH &C
Species in the general sugella & Samonella	Caused by many bacteria of genus	Specier. En Jungal with responsible	Coursed by Commonly	4 mars 9		Microspopula by man of but closely related to
heater contaminated ust	The bacteria More commo	Surimming in water contamin	Dinking water contain	Cowices of Dogunt in		4
with the Request passage & blood &/or mucus cases voniting of b	Dénting worter contaminated with Symptoms include diantes, fever, he bacteria. More common as a food voniting & abdominal cramps.	thongen tendemen to	Windering water contaminated with Produces dysentery like symptoms ares. Only with a bigh fever usually last	Mader General		Encephalitozoan intertivalie has Dioushea & wasting in been detaded in ground water, the immunocomprised individuals
Frequent passage of Jeres with blood Efot nucus & in some	abdominal cramps.	Ear canal swells, cowing pain & tunderness to the touch.	bigh Lever unally last	General Symptoms	in west	E wasting in pried individuals.

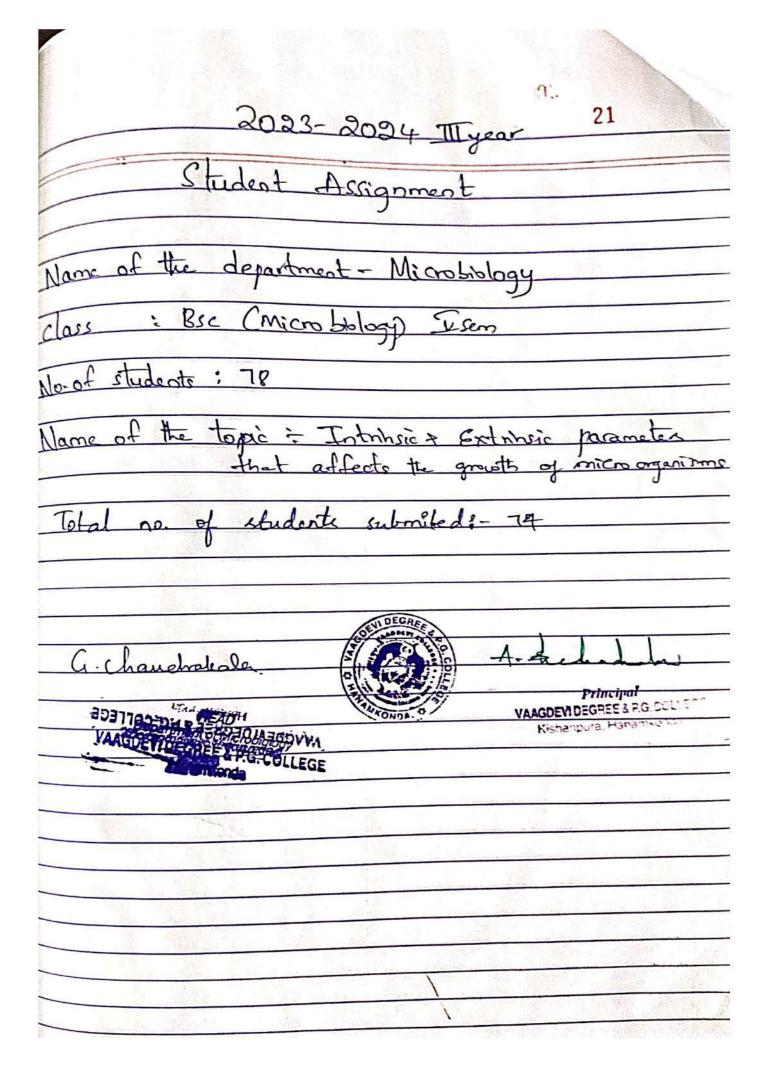
Micaspordia de sugin of delicied in ground water, Head closely related to sugin of delicied in ground water, Head closely related to sugin of delicied in ground water, Head ways of the contominated with Most commonly bearing water contominated with a number legion of the pathogen. Coursed by a number superinting in water contominated with a peace of genus word works who be pathogen. Coursed by a nord building water contominated with backers in the general backers illness. Coursed by a nord backers illness.					1
Microsposal phylum Microsposal pedia Districtor commonly Coursed by related to Coursed by mount Coursed by now Species in the genera Shigelia & Samonella Wolffr west common Ligelia & Samonella Ligelia & Samonel		(Surimmers ear).	Campyloboacterionis	Bacteria:	W licophodosis.
Conceptablito zoon in themalis has been detailed in ground water, the sim being notes on town water the sim bearing water contaminated with The Devilence works to water contaminated with The bacteria. More contaminated with The booker illness. Devilence works to pathogen. The bacterium bee contaminated with the booker illness. Later contaminated with the Tee bacterium	Specie in the genera Sugella & Samonella	Especier. Coursed by many bacteria of genus Latmoneta.		Missofal Agent	Microsportia) but closely related.
in Waster, the sim rater who waster that waster the sim waster with Production with Production of the San transmoster of the San transmos	Made confaminates	Denling woder con the bacteria More con bookne illness	Dindeng water con Jeacer		4
	the (c)		interminated with Passes	is Water	water
	Frequent passage of Jeres with blood E/or mucus & in some	Lymptoms include diawhea, Juves, wonstring & abdominal cramps.	mptony lasty	Teneral Symptoms	#

	Pelyona Visus.	Polic Polic	Hute Gastonitest - mal illnen (AGI) Geal-eral, Epicod by food, wate, pewen to pewen & fomite)
her.	Two of polyoma View JC views &	Policylans	
Part of	Two of polyoma Very isodespread, can manifest views IC views & Aself in water, ~80% of the SK view. Population has antibiodies to polyomailium.	Jeen of infected individuals.	Jeces of infected inclinedua
	Exvieus produces mille respiratory injection & can inject the kidneys immunospred transplant patient. It vieus injects the respiratory system, kidneys of can course progress multiposal letthoecephalopathy in the brain (which is Jata)	have minot symptoms with delisium, headache, lever & occassional seizures & spartic paleyin, 1'6 have symptoms of non-paralytic areptic mening, the rest have senow symptoms resulting in paralysis of death.	
	tampland patient. tem, kidneys of theecephalopatry	stic paleyer, 1's te arestic menings toms resulting	Stomach pain.

	Hepatetic E.	Elepatric- A	Visues:	1-eptospizosin	
	€ lepatetir & viens	Hoodel	Jen on the second	genus Leptospisa	Outenteriae
	Enter water through the	Can manifest etael in	6 JD 10	Wine couping the bacteria	18
Joent pain	٠- الم	5° 18 2	Lating to the state of the stat	e anima	
Joent pain.	Lymptom are of acute hepatitie lives	Jeneral Symptoms.	THE THE PARTY OF T	the animal Regim with flir like symptoms the removes. The second phase then occurs involving meningite, lives damage (cause Jaundice) & Edney	The Markett
abdominal pain,	Journalier Es	include dadique,		phase then phase then an office, lives undice) & Edney	

Dysendery	Salmonellesis	Olifis Externa (Surimmers ear)	Campulato	Disease &	Bacteria:	
\$ K & 6	1 50	1. 50	ampy boocheworks ?		χίς.:- 	
Species in the general Stugella & Samonella	aured by many socteurs of genus	Couved by a number Rusimming in water contaminates of bacterial & Jungal with responsible pathogens.	Most commonly and coursed by Coursed by Compylobacter Jejun	Missolal Agent		Microspoidia) Microspoidia) but closely related to durgi
Made contaminated with the	The bacteria. More common en a food verniting & abdominal cramps.	bacterial & Jungal with responsible pathogen.	0 13	onice of Agent on h		101-01
	common es a dood w	pathogen :	Dundeng water contaminated with Produces ducenten like symptoms Jeaces. Jeaces. 2-10 days.	d'in Water		Encephalitozoan intertivalis has Diaunea & wasting in been detated in ground water, the immunocomprised individuals
Frequent passage of Jeres with blood &/or mucus & in some	Symptoms include omitting & abdom	East canal swell, couring pain & tendeunen to the touch.	Produces different of adornal with a high of	General Symptoms		mmurocompiled indi
Sin some	dianhea, dues,	uch. pain &	ike symptomi we unally last	diam.		in Malmali.

Maeglesiasis (primory amocloic meningoencephaliti [PAM]) (Maral)	Cyclosponasis	(hand-to-mouth)	Franthamoeta Karathis (Cleaning of Gudact Jenses with Gudarumuded water)	Production:
Rubozean (Naclesia Jourseil) (Cyd like appearance)	Profozoan parasile Cyclospola caycherensia	Protozoan (Eutamoeba Micholytica) (Cyst-like appearance)	Microbial Dgent. Aconthamocha (A. Cartellanii & A. Polyphage)	White S.
Water poli mon-chlogmated	Liwage, non treated dienking	Leurage, non-treated dinking	Louice of Agent in Inlater Supply. Midely distributed free living amoreba found in many types of aquatic environment, including emplace water, top water, Ewimming pools, & contact lens solutions.	ORNA DISERSES
Et eadache, vomiting, conjusion, lou et balance, light sevistivity, halluena tions, fatigue, weight lou, fever of coma.	Cramps, nouvea, vomiting, mucle aches, lever & latique.	Dedoninal dinomfort, fatique, voight lors, diarhea, bloating,	Eye pain, eye sednen, blussed visson, sensitivity to light, sensation of something in the eye & executive teasing.	



Intrinsic and Extrinsic properties

Intrinsic factors

. M.O'S can grow in a wide range of pt. The variations in pri values for growth may be due to different strains of a species or different species in a genus . There is an inter relation ship blw pri and other environmental factors . There is put of the Substrate also influence The activity of enzyme systems and the products of metabolism of M.os

(1) by of tooy:

The pti of a food along with other environmental factors will determine the types of mio's that are able to grow and dominate and eventually cause Spoilage by a desired formentation on a potential health hazard. The play a food is determined by the acid or alkaline substances. The pt of the food products can change during ripening processing or Storage. consider a series of the series

Egg white: This is one of the most alkaline biological bub stances. The albumin of or freshy laid chicken has a ph approximately of 7.6 when the egg is stored in storeroom the co, from combonic acid in the albumin is released through the egg chell. When this occurs pli levels are associated with thirning of albumin and a dec in egg: quality egg quality is maintained at a albumin pH near 8.2 Storage in an atmosphere of cos or oiling the egg shell maintains. the pH at a intermediate level. Red Meat: The PH of the living animal tissue is near to neutral. The circulating blood brings nutritents and oxygen to the cells and remove the waste products of

tioner model equilibrium has been established the user posses light our longer model use when placed to one environment at long actation boundary. In general the higher the temp. He have the temp. He

tooks that undergo conject opinings from models upon and contain hasteria should be should under constitions by law relative humidity. It is possible to leave the chances of conject spoilings at certain, facts by storing winder law conditions of relative humidity till should be remembered that the foot it self leaves the impositions to the almosphere under it self leaves the impositions to the almosphere under that conditions and there by become understable.

I factories and conc. of approximate environment:

The stronge of food in almosphere contains in a measured amounte of Co. upto lost to refferred to us controlled almosphere on medicine at mosphere stronge. The control of Co. generally, closenot expend to the aird is applied either from mechanism Sources a by the use of day inc. Co. has been shown to reffer the fungal realing of fruits country by alonge with a fungal realing of fruits country by alonge with a fungal to the series of effective against available of funda the Co. and Co. an effective against most respective against respec

at the profession and the profession of the profession of

to 45°C with optimum blue 30°C and 40°C are reffered to as mesophiles.

food are those that belong to the general pseudomonas and enterococcus. These arganisms grow well at refige nated temperature and course ispoilage of meat. Itsh poultry eggs and other food normally held at this temperature. The mesuphilic organism mainly cause opoilage of food that is placed at room temperature most thermophilic bacteria of importance in foods belong to general bacillus and clost ridium. These are of great intrest to the food microbiologist and food technologist in the canning industry.

taken into account in selecting a storage temp or Bananar are better it stored at 17°c. A large no. of vegetables are stored at a temp at about 10°c including polatoes cabbage etc. Temperature of storage is the most important parameter that effects the spoilage of bighty perishable foods.

2. Relative humidity of storage and environment:

The relative humidity of storage environment is important both from . The stand point of aw in foods and growth of Mio's at the substances.

when foods with low aw values are placed in environment of high relative humidity, the foods pickup

Biological Structures:

execulent protection against the entry and subsequent damage by spoilage organisms. In this entegory are test of seeds the outer covering of fruits. The shells of og etc. The strain covering of Fish and meat such as been and park prevents the contamination and spoilage of th foods.

Batrinsic factors! . The extrinsic factors of Foods are those properties of the storage environment that effect both the foods and their mois the parameters are

1. Temperature of Storage 1 11 101.

3. presence and conc. of gaines in the environment

1. Temperature of Storage:

Moo's grow over a wide range of temperate the lowest temp at which Mio's have been reported to grow is 34°c and the highest is 90°c . The M. 03 are grouped into three types based on their temp require

1) Psychophiles: The organisms that grow well or blu: and soc are reffered to as psychop philes.

ii) Mesophiles: The organisms that you well above us's with optimum temp blus 55°C and 65°C are freffered to us the mophiles

ternion on the almosphere.

Nutritent content

in order to grow Mois require the following

Dwoler 11) Sauce of energy

111) Sauce of 115

iv) vitamins and related growth jactors

v) Minerals .

Microbiganism an grow only in aqueous son They cannot grow in pure water or in the absence of water dissolves many substances than any other solvent. water is involved in the chemical reactions that break down Substinte to usable molecules. As Sources of everyy food borne mos my utilize carbohydrates such as starch and cellulose M.D's require B-vitamin in low quantities coloin elements or minerals found in glacose cellulose components are needed in trace elements by Mio's Naskica and Mg are needed in large amounts.

Antimicrobial constituents

The stability of some foods against the altack by 100's is due to the presence of certain naturally occurring cut stances that have been have shown to have antimicrobial activity some species me known to contain rescential offer that possed antimicrobial activity. 150

Among thece. Eugenal in cloves allicin in garlie. cinnamic aldehyde and Eugenal in cinnamon cours mik contain Deveral antimicrobial Substances including Lactofucin conglu -tinh eggs cortain Lycozyme which power antimicrobial activity

metabolism when an animal to slaughtered blood no longer circulater anaerable conditions develop and met abolic products accumulate . The inheriant tissue enzymes terment the muscle glycogen to lack acid which lowers the ptl.

Immediately after shoughtering. The pill of most park must beef muscles is 6.7 to 7.2. The pill of most park muscles from 5.8 to 5.8 microbiblogically. low pill containing food is the desired one. The pill Containing food is the for the growth of pseudomonas that spoil meat is 5.69 if meat has an ultimate pill less then 5.6 it would be expected to have longer life.

The pill of the chicken muscles varies similarly to that of red meat slaughtered chicken has a pill of 55 h 5.9
Sea food:

The PH of Fish [7.0-1.3) is lowered to pH 5.5-6.5, depending on the Species of fish and the initial amount of gly cogen in the muscles. The pH of the canned crab is usually pH 6.8 - 7.4 and pH of brown. Shrimp is 7.1-84 Fruits and Vegetables:

generally have a lower pH than ripe fruits the ripening important influence the ultimate pH. The only of fruit influence not only the growth of M.D's but also quality factors. Such as saftening and discolaration of canned roods. Since the pH is low fruits are usually sported by mould growth vegetables. Usually have a higher pH than fruits and are subjected to bacterial spoilage.

b) moisture content: Some woo's an tempin alive in a dried condi from but cannot carry out their normal metabolic activit ies or multiply without water . dissolves more substance than any other solvert. The water requirements of M.o's defined in terms of water activity (aw).

Water activity (an) is defined as the vapour pressure of a solution divided by the vapor pressure of ? solvent. The value of water activity range from oto 1. The escape of water to the our is measured by the equilibri -um relative humidity ([.R.H)

0.w - P 100 whater activity and microbial growth . M.O's hav on max, opt. and, aw for growth. Since the aw of pur water is 1.00 and M.o's cannot Survive in pure water. The mas or upper limit. for microbial growth is an aw some what less than 1.00 . The aw of most first foods is above 0.99 in general, for growth bacteria require higher no .. than yeast and yeast require a higher aw than maide oth aspects of one one also important. These aspects include the germination of Spores toxin production resistant to beat.

Most oftenly high nuris required for sponula - ion than germination. The production of enterotoxin by 3 acres requires a high and than that for growth. The lower. the aw the longer the M.O'S Survive during storage . " "

Water activity of food +

The aw of Food can be lowered by removing water, by adding solutes or by Freezing fresh foods. Such as Fruits. regetables. meat, poultry and Fish have aw values of 0.98" products that have low aw dur to sugar products for jelles or honey) will be subjected to attack by or the file yeasts while products that contain high call to will be spoiled by halophillic bacteria. Fried foods granlly have a aw values below of the A safe aw level of change is usually considered to be to to low less in protected by low aw enzymatic changes can occurs he a slow rate.

Oxidation - Reduction potential:

when a Substance is oxidised it, loss etc.

These es must be accepted by another substance which

then becomes reduced. The oxidation - reduction potentials
a system is expressed by the symbol by the system.

The intensity not the capacity of the system.

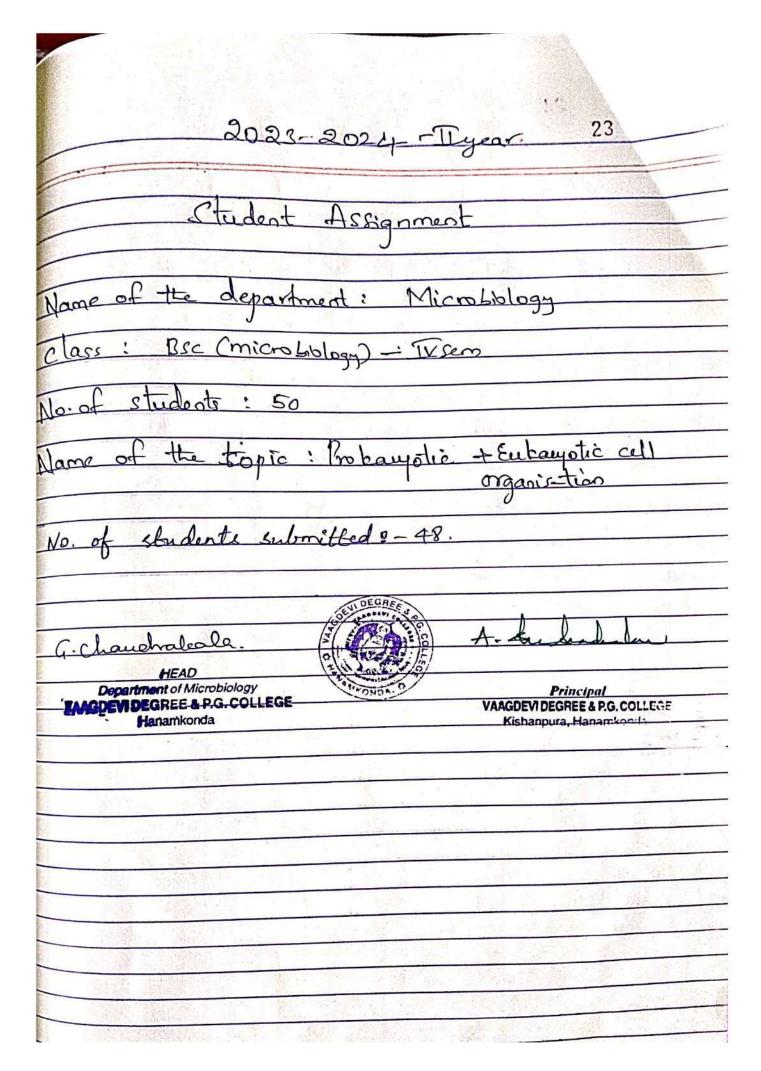
Effect on M.O.O.:

- tion and reduction are the sources by energy for ell process. Since energy is needed by the cell to furtis

Strictly dentic M.D's grow only in the presence of Free of the atmospheric of strictly anacrobic organisms survive and include only in the absence of Free of facultative anaerobes can grow with without Free of meno acrophilic org's cannot multiply in either entirely aerobic anaerobic conditions. They grow bast in a limited around of o.

Redox potential of Foods:

depends upon the compositions The out of Food



General Microbiology.

Name: K. Sahithya.
Group: B.C. MB-IV

-> Ultra Structure of Brokarystic cells:

Perakaryotic cell envelope consists of several layers:

- · Grlycocalyx(or stime layer): A loose, gelatinous layer composed of polysaccharides and proteins. It helps protect the cell from desiceation and provides some protection against phagocytosis.
- 2- Peptidoglycan (or Munein) Layer: A rigid layer composed of peptidoglycan (a polymer of sugars and amino acids). This layer provides structural support, maintains the cell's shape and prevents the cell from bursting due to osmotic pressure.
- 3. Outer Membrane (OM): A phospholipid bilayer containing various proteins, including porins, which facilitate the transport of molecules dross the membrane. The OM is present in lyram-negative bacteria.

Parokaryotic Cell Membrane:

The prokaryotic cell membrane also known as the plasma membrane, is a phospholipid bilayer that surrounds the cells cytoplasm. It:

1. Regulates the movement of molecules:

controls the fransport of ions, nutrients, and waste productions the membrane.

VAACDEVIDEGREE OP. O. COLLECTE

- Regulales the cell's internal environment, including pH, temperature, and amalic balance.
- 3. Bravides structural support: Helps maintain the cell's shape and provides a platform for the attachment of various proteins and other molecules.

Cytoplasm and Cytoplasmic Inclusions:

The cytoplasm is the region between the cell membrane and the nucleoid. It contains:

- of water, ealls, sugars and various organielles.
- 9. Ribosomes: Small organelles responsible for protein
- 3. Inclusions: specialized structures that perform specific functions such as:
- o Mesosomes: Infoldings of the cell membrane that may be involved in cellular respiration of DNA replication of Magnetosomes. Members In the cell membrane to DNA replication
- Magnetisomes: Membrane bound structures containing magnetite crystals, which help magnetotactic bacteria orient themselves in magnetic fields.
- o Gras Vesicles: Protein-bound structures that provide buoyanáy, allowing some bacteria to float or maintain their position in water columns.

ex Nucleoid:

- The nucleoid is the region where the protaryotic cells genetic malerial (ONA & RNA) is located. It:
- 1. Lacke a nuclear membrane: Unlike enkaryolie cells, protoryatic celle do not have a nuclear membrane surrounding their genetic material.
- 2. Contains a single circular chromosome: Most probas -yotes have a single circular chromosome, although some may have multiple chromosomes or plasmids.
- 3. May contain plasmids: Plasmids are small, selfreplicating circular DNA molecules that can carry additional genetic information.

Other Ultrastructural Features:

- Other notable ultrastructural feasilives of probaryotic cells include:
- 1. Pile (or Fimbriae): Short, hair-like structures that facilitate attachment to surfaces, DNA transfer or mobility.
- 2. Flagella: long, whip-like structures that provide mobility.
- 3. Cell wall appendages: Structures like &-layers, which provide additional protection and support.

PROKARYOTIC CELLS

1. Lack a true nucleus: Genetic miterial (ONA JRNA) is found in a single circular chromosome in the nucleoid region.

2. No membrane - bound organelles: No mitochondria, Chloroplasts, or other membrane -bound organelles.

3. Small size

4. Simple cell structure. Lack a cytoskeleton and the cell wall is composed of peptidoglycan (in bacteria). 5. Rapid all division: can divide rapidly with some buteria dividing every 20-30 minutes

6. Limited metabolic processes, Lack the complex metabolic processes found in enlaryotic

EUKARYOTIC CELLS

1. True nucleus. Gentic material (DNA) is found in a membranebound rucleus.

Membrane bound organelles: contain various organelles, such as mitochondia, Moraplants & a golgi apparatus.

3. Large size: Typically 1-10 um in diameter Typically 10-100 um in diameter.

4. Complex cell structure: Mare a cytoskeleton Ethe cell wall is composed of cellulose (in plants) or chitin (in fungi).

5. Slower cell division. Divide more dowly then probaryatic cells with some cells dividing every 24

6. Complex metabolic processes, Have complex metabolic processes, including photographe phosphorylation (in mitochondres)

Key Differences

- 1. Mucleus: Entropystie celle have a dome nucleus, while probanyatic celle lack a nucleus.
- organelles: Enhanyolic celle have membrane-bound organelles, while probabyatic celle lack these structures.
- 3. Cell size: Entaryptic celle are generally larger than
- metabolic processes: Enhangolic celle have more complen
- Define cells with its parts in detailed with the help
- ⇒ CEU: A cell is the basic structural is functional unit of living organisms. It is tiny membrane-bound entity that contains the fundamental components recessary for life.
 - CELL COMPONENTS: A cell consists of several components,
 - 1. Plasma membrane: of thin, semi permeable membrane (7-10 nm thick) that surrounds the cell and regulates the movement of materials in and out.
 - · Composed of phospholipid bilayer with embedded proteins.
 - · controls the exchange of nutrients , waste, &

P

2. Cytoplasm:

• A jelly like substance inside the all membrane

where many metabolic processes take place.

· composed of water (70-90%), salls, sugars, amino acids and variour organelles.

· Site of glypolysis, protein synthesis and other cellular activities:

3. Genetic Material (Nucleus):

- reproduction and furtion.
- · Found in the nucleus leukaryatic cells I or nucleoid (protaryatic cells).
- · Composed of DNA (A RNA in some viruses) and associated proteins.
- 4. Organelles: specialized structures with in the all that perform specific functions. Examples include:
 - 2) Mitochondria: site of cellular respiration, generating energy for the cell through ATP production.
 - b) Ribosomes: Found in cytoplasm.

 Site of protein synthesis, translating mRNA into specific amino acid sequences.
- () Endoplasmic reticulum (ER):
- · Found in enkaryotic cells.
- · Invalved in protein synthesis, folding se transport of

1) Golgi Apparatus:

Found in enkaryotic cells. Contain digestive enzymes. Has break down and necycle cellular waste a foreign substances.

f) Chloroplast: Found in plant cells.

Site of photosynthesis, converting light energy into chemical energy.

Cytorkeleton:

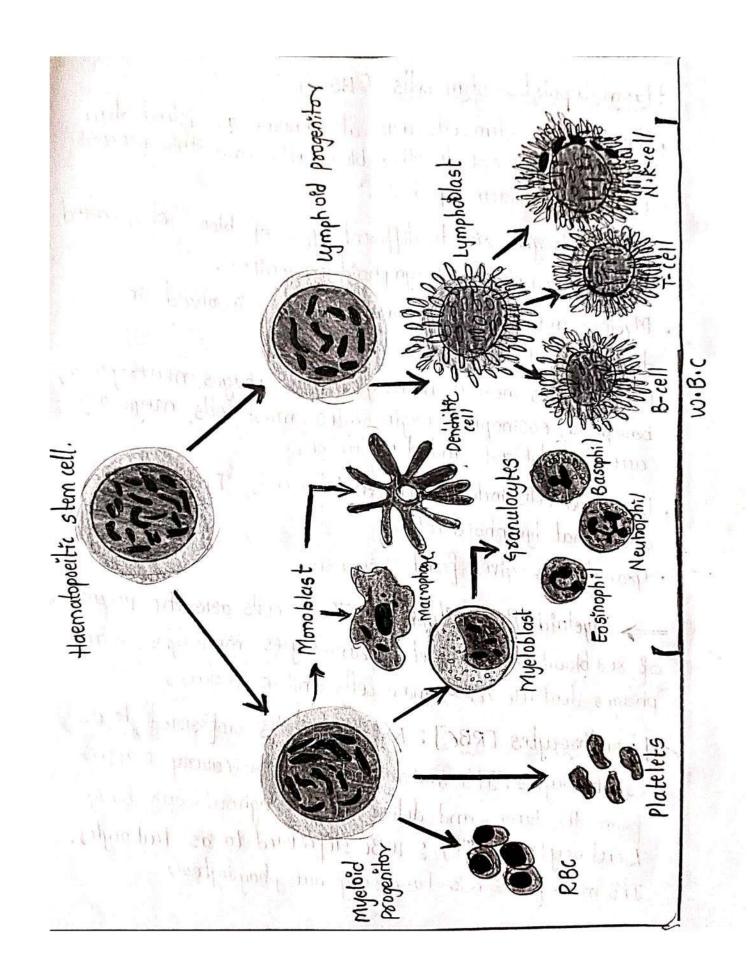
- of retwork of protein filaments that provides structured support, shape is mechanical stability to the cell.
- · composed of microtubules, microfilametes, 4 intermediate filaments.

Cell Wall:

- . A rigid, enternal layer that provides additional support
- · Found in plant, bacterial & fungal cells.
- · Composed of cellulose Cplant cells), peptidoglycan (bacterial cells) or chilin (tungal cells).

These cellular components work together to maintain the cell's homeostagie, facilitate communications & enable the cell to respond to its environment.

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Haematopoietic stem cells [HSCs]

· Haemtopoietic stem cells agre also known as Blood stem cells that give size to other blood cells, and this process is called as Haematopoiesis.

· HSEs cells give vise to different types of blood cells, called

Myeloid progenitor and lymphoid progenitor.

. Myeloid and Lymphoid lineages both are involved in

dendritic cell formation.

· Myeloid cells include monocytes, marxophages, neutrophils, basophils, eosinophils, exythrocytes, mast cells, megakanyocytes, myeloblast and dendritic cell.

· Lymphoid cells include natural killer cells, T cells, Buells

and innate lymphoid cells.

· Granulocytes gives finst nesponse.

-> Myeloid Progenitor :- These cells are the precursor of red blood cells, platelets, granuloustes, monoyte, mairophages, dendoitic cells, mast cells and osteoclasts.

Enythroughes [RBC]: Red blood cells referred to as Enythonogles. It's main function is to carry oragen forom the lungs and deliver it throughout our body. Leukoytes (MBC): WBC nefeonned to as leukoytes. It's main function is to carry out phagocytosix

Genanulocytes: A type of immune cell that has granules with enzymes that are released during infations etc.

ij Neutrophils:

· Neutrophils also known as neutrocytes heterophils / poly morphonuclear leukoustes are a type of white blood cell.

· They form the most abundant type and make up around 40% to 70%/80% of all WBCs

· They form an essential past of the Innate immune system



· The average size of Neutrophil is 12 to 15 µm con 19 µm

· Neutrophil is likely to first encounter a pathogen.

· Extremely good in phagogytosis. . It has very short life span compared with other WBCs.

· It forms hair like filaments by joining 2 to 5 lobes.

. It peroduces puss during an infection.

· It moves like amoeba, hence it has Amoeboid movement.

ii) Eosinophil ;

· It also called as eosinophiles (091) acidophils.

· Essinophils make up about 1-3% of wBCs, and are about 12-17 µm in size with bilobed nuclei.



Eosinophil.

. It ocleases many cytokines and other chemical factors.

. It is important for wound healing and tissue repairing.

. It is less common in the blood than Newtrophil.

iii. Basophil:

· These cells are least common type of WBC.

· These cells and the largest granuloustes.

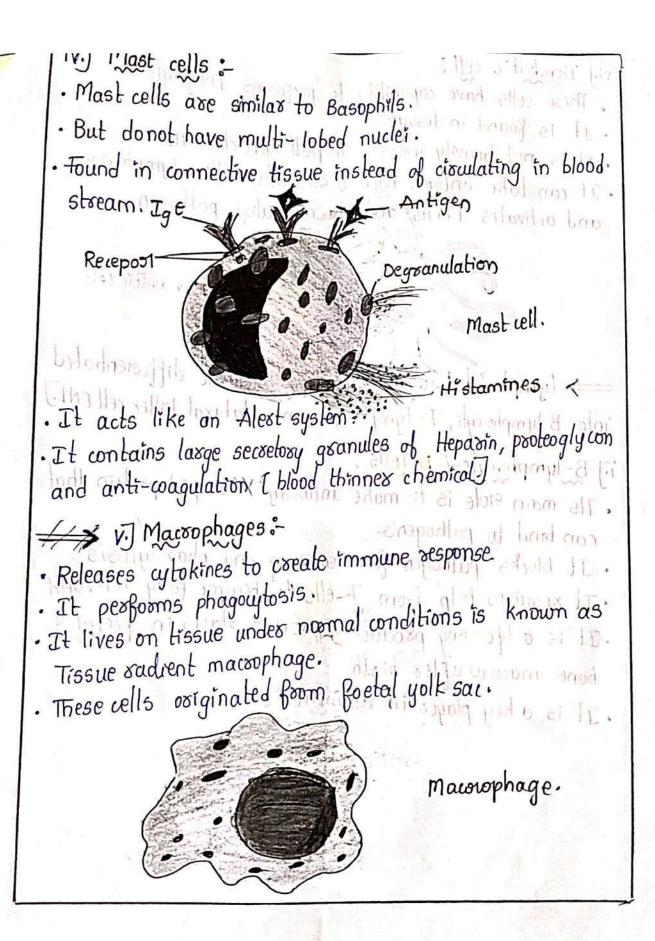
. It represents about 0.5-1%



Basophil.

· It secretes extokines 4 other signalling molecules.

· It has s- shaped nuclei with 2 lobes.



These cells have capability to performs phogoglosis? vi) Dendsitic cell: . It is not heavily involved in pathogen clearance. . It can take antigen back to stouchuse called lymph node and activales Teells and activales Teells and activales pendonitic cell. > Lymphoid Parogenitor :- These cells and differentiated into B lymphocyte, T-lymphocyte and Matural Killer cell [NE] if B-lymphocytes/ B-cells - 19 pent employed . Its main 910le is to make antibody 'y'shaped protein that can bind to pathogen's.

It blocks pathogen from entering and phagocytosis.

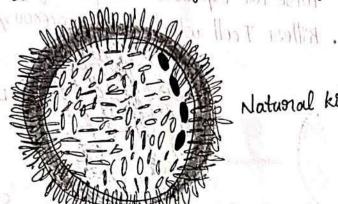
It requires help from T-cells to became fully activated. . It is a life long production process, starts in foetal 4 bone massow after bisth. Inpudiasion Insubus meeil . It is a key player in adaptive Ik. B-cells.

ii] T-lymphocytes/ T-cells: OD8: These are the sunface proteins by dividing into CDy and CDy [culsteer of differentiation] These are expressed sumface of immune cell. · Killer Tell which kills cancerous/infected cells. ODy: These are known as Helper Tells. . These activate B-cells and secrete cytokine. . It guides immune response. > Regulating Tells: . *Secretes cytokine to tone down IR and kills killer T-cells, it stants getting out of control. . After encountering pathogen, B&Tcells can live for years in the body. So, next time they see the pathogen and able to give strong reaction allowing the body to control infection more quickly.

iii Natural killer cells:

. It snecognizes and kills cancer cells and vivally infected

cells.
These agre effective in identifying and cleaning pathogen,



Natural killer cells

· But they can only secognise generalized pathogen not specific one.

· They can differentiate good 4 bad microbe.

Nk cells develops in Bone marrow as well as some extern

modular sites such as lymph nodes. This modular sittes such etc. tiphens eles Thymus, liver etc. tiphens. . : allos pridolopis con anidalis elessoc. : allos pridolopis con elessoc.

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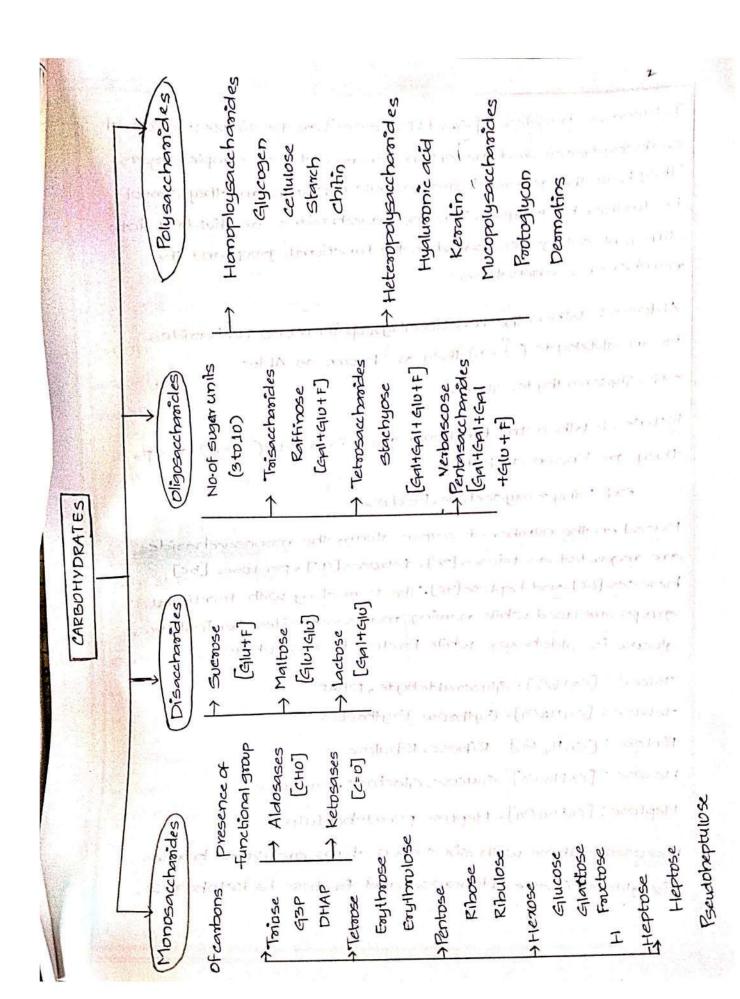
BIOMOLECULES

CARBOHYDRATES

Carbohydrates are defined as polyhydroxy aldehydes [or] ketones [or] compounds that produce them on hydrolysis. They have a general formula of cn(H2O)n. These definition of a carbohydrates was proposed by Gmil fisches, who is also regrated as father of shremal Biochemistry

*IMPORTANCE:-

carbohydrates play a major role in promoting the health fitness. They form a major part of food and help a great deal in building the body strength by generating energy. In fact, they are one among the three prominent macronutrients that serve as excellent energy provides. The functions of carbohydrates are multiple and it is owing to this fact that if becomes all the more necessary to incorporate carbohydrates in the meal. For instant energy generation, sugars and starch act as the perfect fuel that enable to carry out physical activities efficiently and effectively fiber does wonders in keeping bowel function going smooth, being fats and proteins. carbohydrates intake can take place in different forms like sugar, starch, fibers, etc. Talking about the imprortance of carbohydrates apart from its direct benefits, there is also



an added advantage of carbobydrate consumption in different foods, which if eaten, also pave way for consuming other essential nutrients. Therefore, it is preferable to go in for DARBOTTANES distintive carbohydrates food sources.

carbohydrates add on to the taste and appearance of food item, thus making the dish tempting and mouth watering. They are sometimes used as flavours and sweetness, Carbohy. drates and in regulating blood glucose and also do good to the body by breaking down fatty acids, thus preventing ketones. So eat, plently of foods that are sich sources of carbohydrates, but it is recommended to go in for natural slow digesting carbohydrates

JMEDE IVVICE

* CLASSIFICATION

round in the region of prody district property carbohydrates are often referred to as sackhamides (Greek: Bakcharon-Sugar). They are broadly classified into three major groups. and all corner area area post danker

Monosaechanides, oligosacchanides, polysacchanides. Thes categeorization is based on the number of sugar units. Mono-and oligo saccharides are sweet to taste, crystalline in character and soluble in water, hence they are commonly known as sugars.

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I. Monograchopides: [Greet: Mono-one] are the simplest group of carbobydrates and are often referred to as simple sugars. They have the general forms formula (f(H20)n and they cannot be further bydrolysed. The monograchopides are divide a into different categories, based on the functional group and the number of carbonatoms.

Aldoses: - When the functional group in monosaccharides is an aldehyde (-c=0) they are known as Aldoses ex:- Glyceraldhyde, Glucose

Ketoses: When the functional group is a keto (-c=0) group, they are known as ketoses

exi- Dihydroxyacetone, Forxtose

Based on the number of carbon atoms, the monosaccharides are regarded as trioses [sc]. tetroses [4c], pentoses [5c] heroses [6c] and heptose [7c]. The term along with functional groups are used while naming monosaccharides. For instance, glucose is aldoherose while Fructose is a Ketoherose.

Triose: [C3H606] - Glyceraldehyde, DHAP

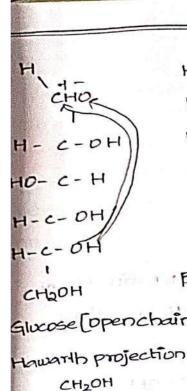
Tetrose: [C4HBOq]. Bythouse, Enythoulose

Pentose: [Cotto Oo] - Ribose. Ribulose

Hexose: [C6H12O6]-Glucose, Glactose, Forctose

Heptose: [C7H1407] - Heptose, pseudobeptulose

Hearoses in Those with six carbon atoms are called hearoses viz glucose is and adoherose and forctose is ketoherose.



2- D-Glucose

Glixose [openchain]

Glocose is the most readily metabolized sugar present in human body. It is sugar fuel of life

Fooctose [open chain]

B-P-Fouctose

9-D-Forctose

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MICROBIOLOGY ASSIGNMENT

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Principul

VAAGDEVI DEGREE & P.G. COLLEGE

Kishanpura, Hanamkonda.

Zsolation purfication and culture of Microorgan?sm:

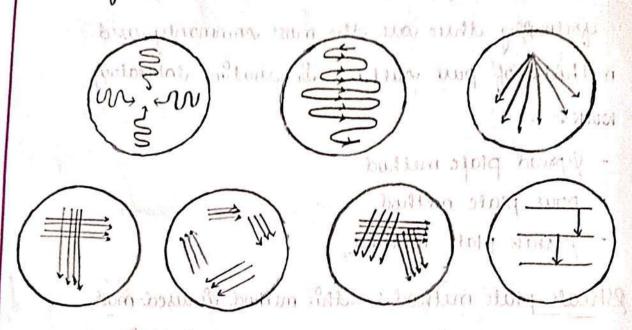
→ A pure œueture is defined as a population containing only ginger especies (or) estain of bacteria

youlowing there are the most commonly used methods of pure cultures in writine laboratory work:

- Spread plate method
- pour plate method
- shuak plate method

Esteak plate method: - this method is used most recommonly to isolate pure cultius of bacteria. I a general amount of mixed culture is placed on the tip of an snoculation loop needle Ee is getwak across the georgiace of the agas medium. These plates are snowbated to allow the growth of volonies by esteaking, a dieution gradient is abblished across the face of the petri plate as bacterial cases are deposited on the agas grugas grugas. Lach colony is the progency of singal viccotial case thus is the progency of singal viccotial case thus

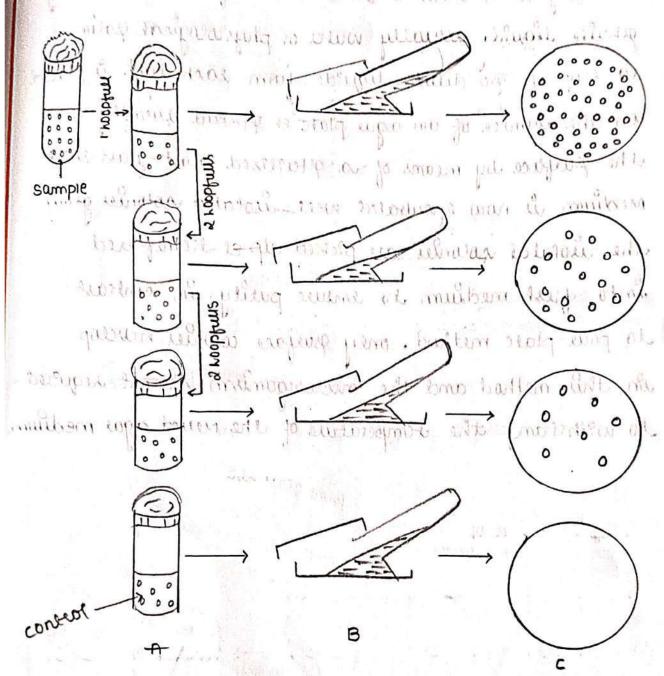
guch isotated colonles are placed, up grepaal-dy using estule inoculating coop! needle and restraked into fresh media to ensure pully.



pour plate method:

this method involves plating of willuted gamples mixed with melted vagas medium the main poinciple is to willute the imoculum in generative tubes containing inquified agas medium go as to permit a thorough distribution of bactural ceus within the medium, mixed culture of bactura is diluted which in tubes in temperature of 42-45° t agas goldified who 42°c bactura and the method medium

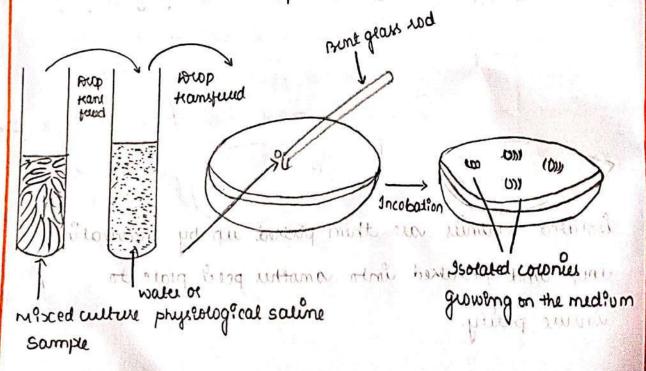
into preparate pets? plates, allowed to prolidity and then incubated when vactural rolonles divilop.



isolated colonies are then pecked up by snoculation doop and exteaked into another peril plate to insure purity.

Spread plate method:

In this method the Mixed welline top in microorganism abouted in a genes of twe containing geterile liquid, wassely water or physiological pealine a deop of the district liquide from each tribe is placed on the centre of an agas plate a tepsead evently over the payface by means of a extersized went-genes would medium is now snewbated were-isolated volonies grow the risolated volonies are picked up as transferred into furth medium to ensure purity. In contact to pour plate method, only queface whomes increased in this method and the microorganism are not required to withstand the temperature of the necked agas medium.



Recial vilution method:

this method is isommonly used to obtain pure custures of those microorganism that have not yet been esuccessfully scullwated on solled media rand grow only in signid media. a viscoorganism that pedominates in a mixed sculture can be isolated in pure your by a peries of dilutions.

10 me medium having 1,000 michoiganisms

(100 maresorganisms)

9 ml medium

10 mi med having 100 miceo organisms

Rimove i me (10 microsiganisms)

aml medern

10 ml medium have 10 micesorganisms.

9 mi medium

amove int

10 mi medium howing i microorganism

the midium now containing millions of rucioorganism but, since, they all organish from single microorganism, its pure culture,



VAAGDEVI DEGREE AND PG COLLEGE

(An Autonomous Institution, Affiliated to Kakatiya University.) Kishanpura, Hanamkonda



Department of Physics and Electronics Students Assignment

S. No.	Group	SEM	Assignment Topic
1	MPCs Sec - A & MPCs Sec - B	I	Vectors, Scalars, Vector field, Scalar field, Curl of a vector field, Gradient, Divergence
2	MPCs Sec - A & MPCs Sec - B	I	Gauss Divegence theorem, Stokes theorem
3	MPCs Sec - A & MPCs Sec - B	I	Variable mass system, Motion of a Rocket, Euler's equations, Symmetrical Top
4	MPCs Sec - A & MPCs Sec - B	I	Equation of motion of a particle under cetral force, Kepler's lws
5	MPCs Sec - A & MPCs Sec - B	I	Michelson - Morley Expeeriment, Loretnz transformations
6	MECs	I	Average, rms value of current, J - operator, Kiechchoff's law and its applications
7	MECs	I	Maximum power transfer theorem, Thevinin's theorem, Norton's theorem
8	MECs	I	Transient response of CR & LR circuits, Diffentiator & Integrator
9	MECs	I	LCR series and parallel circuits, Construction and working of CRO
10	MPCs Sec - A & MPCs Sec - B	II	Maxwell - Boltzmann's velocity distribution law, Transport phenomenon
11	MPCs Sec - A & MPCs Sec - B	II	Thermodynamical potentials, Maxwell's equations
12	MPCs Sec - A & MPCs Sec - B	II	Planck's law, Rayleigh Jeans law, Weins law
13	MPCs Sec - A & MPCs Sec - B	II	Maxwell-Boltzmann distribution law, Bose - Eienstein law, Fermi - Dirac distribution law
14	MECs	II	Formation of PN diode, zenor diode, V-I Characteristics
15	MECs	II	PNP, NPN transistors,

16	MECs	II	Transitor configurations, V - I characteristics
17	MECs	II	Construction and working of FET , V-I charatoristics, FET as switch
18	MECs	II	Construction and working of UJT, UJT as relaxation oscillator
19	MECs	II	Construction and working of SCR, Characterisitics
20	MPCs Sec - A, MPCs Sec - B & MPCs Sec - C	III	Gauss's law, application to spherical charge distributions, Electrical potential from electric field for a spherical charge distribution.
21	MPCs Sec - A, MPCs Sec - B & MPCs Sec - C	III	Biot-Savart's law, 'B' due to a straight current carrying conductor, Ballistic Galvanometer
22	MPCs Sec - A, MPCs Sec - B & MPCs Sec - C	III	Maxwell's equations in vacuum and dielectric medium, Poyinting's theorem.
23	MPCs Sec - A, MPCs Sec - B & MPCs Sec - C	III	Growth and decay of currents in LR, CR and LCR circuits
24	MPCs Sec - A, MPCs Sec - B & MPCs Sec - C	III	Thevenin's theorem, Norton's theorem. Reciprocity theorem and Maximum power transfer theorem
25	MECs	III	Full wave rectifier, Bridge rectifier
26	MECs	III	L-Section filter, π- Section filter
27	MECs	III	Switch mode power supply, UPS
28	MECs	III	Feedback, advntages of negative feedback, RC coupled amplifier
29	MECs	III	Colpitt's oscillator, Hartley Oscillator, Phase shift Oscillator,Wein bridge oscillator
30	MECs	III	Astable multivibrator, Monostable multivibrator, Bistable multivibrator
31	MPCs Sec - A, MPCs Sec - B & MPCs Sec - C	IV	Transverse wave propagation along a stretched string, modes of vibration of stretched string clamped at ends,
32	MPCs Sec - A, MPCs Sec - B & MPCs Sec - C	IV	Longitudinal vibrations in bars- wave equation and bar fixed at both ends

33	MPCs Sec - A, MPCs Sec - B & MPCs Sec - C	IV	Newton's rings, Michelson Interferometer
34	MPCs Sec - A,MPCs Sec - B & MPCs Sec - C	IV	Fraunhofer diffraction due to single slit, double slit
35	MPCs Sec - A, MPCs Sec - B & MPCs Sec - C	IV	Babinet's compensator – Optical activity, analysis of light by Laurent's half shade polarimeter.
36	MECs	IV	Inverting Op-Amp, Non-inverting Op-Amp, integrator and differentiator
37	MECs	IV	Sine wave (Wien Bridge) generator and square wave (Astable) generator, Triangular wave generator, Monostable multivibrator
38	MECs	IV	Amplitude modulation, Balanced modulator, Demodulation – diode detector
39	MECs	IV	Frequency modulator, FM Discriminator, Advantages of frequency modulation
40	MPCs Sec - A, MPCs Sec - B, MPCs Sec - C & MPCs Sec - D	V	Vector atom model, Raman effect. Experimental arrangement
41	MPCs Sec - A, MPCs Sec - B, MPCs Sec - C & MPCs Sec - D	V	Davisson and Germer experiment, Schrodinger time independent and time dependent wave equations
42	MPCs Sec - A, MPCs Sec - B, MPCs Sec - C & MPCs Sec - D	V	Gammow's theory of alpha decay.GM counter
43	MPCs Sec - A, MPCs Sec - B, MPCs Sec - C & MPCs Sec - D	V	Bragg's law, Experimental techniques - Laue's method and powder method.
44	MECs	V	OR, AND, NOT, XOR, NAND, NOR gates and their truth tables half adder, full adder
45	MECs	V	De Morgan's Theorems, Reduction of Boolean expressions using Karnaugh Maps
46	MECs	V	Flip-flops: SR, D, JK, T, JK and JK Master-Slave, SISO, SIPO, PISO and PIPO registers
47	MECs	V	Architecture of 8085 microprocessor

48	MPCs Sec - A,MPCs Sec - B, MPCs Sec - C & MPCs Sec - D	VI	Full wave rectifier, Bridge rectifier
49	MPCs Sec - A, MPCs Sec - B, MPCs Sec - C & MPCs Sec - D	VI	PNP, NPN transistors, RC coupled amplifier
50	MPCs Sec - A, MPCs Sec - B, MPCs Sec - C & MPCs Sec - D	VI	Construction and working of FET , V-I charatoristics, FET as switch, Construction and working of UJT, UJT as relaxation oscillator
51	MPCs Sec - A, MPCs Sec - B, MPCs Sec - C & MPCs Sec - D	VI	OR, AND, NOT, XOR, NAND, NOR gates and their truth tables half adder, full adder
52	MECs	VI	Architecture and pin diagram of 8051,
53	MECs	VI	Addressing modes: Immediate, Register, Direct, Indirect, Absolute addressing, Relative addressing, Indexed Addressing
54	MECs	VI	Addition, Subtraction, division, picking the smallest/largest number among a given set of numbers,
55	MECs	VI	Interfacing of DAC 0808 to microcontroller, Interfacing of ADC 0804 to microcontroller, Seven segment LED.

PHYSICS ASSIGNMENT-I Name + Ponnala Praveen sub; physics group; mpcs(A) I. Vector Analysis" -> vector analysis is used to simplify same physical quantities like mechanics electro dynamics, fluig dynamics etc ..., Vector: The physical quantity which as magnitude, and direction is collect as vector Ear displacement velocity, force, scalar: The physical quantity which as only magnitude es known as scalal. en' Temperature imassidencity... vector field! when a physics quantity express point to point in orgin of space is called as vector field Ex: Magnetic field , electric field , gravitational Scalar Field + When a physical quartites magnit ude express point to point in a region 01 space. 3 called as scalar field.

SIGNMENT-05

Gr. Pavan 601? kumar

CENTRAL FORCES

Central force is defined As a force which acted on a portide or object is towards or away from a fixed point.

Ex: gravitational force.

Let us Consider two objects having mass m, me one object is sevolving around other object then the central force is [gravitational force]

Gr= Granavitational force constant.

Ex: Eletrostatie foorce.

If we considered on electron the electron is sevolving around nuleur In a orbital the force experienced by the electron is a content force and is given by

Mame - Y. Karnakar group; - MPC(I(A)

sub: physics ROHNU :- 53. Sem

parameters:

Mucleuc

positive changed porticle

The closed approach between a position charged particle and the nucleus when the changed particle approaching towards the nucleus it is called impact parameters. Explaination of Impact parameter

= Let us consider nucleus 'n' and a position charged particle at the position 'a' which is passing at the Site of nucleus its actual path is to D. In parabolic path because there will be columboic repulsion takes. Place between the nucleus and changed particle but it this force is reglected the changed particle will go along the path APB in the straight line the distance between n and p is a closed distance between the nucleus and the particle . These is

Physics Assignment - III Group: MPCS Topics Topics Sen - 2.

- 1 Stokes theorem
- a Grouss divergence theorem
- 3. Newton's laws of motion
- Stokes theorem: Line integral of a vector field in closed Surface is equal to the normal surface integral of a curl of a vector field Bounded by a curl.

 The A is a vector field.

SADL = S(XXA)ds.

=). By using stokes theorem we can convert line integral into surface integral.

PROOF:

Let us consider a surface 's' Bounded by Cool
"C'. The surface "s' is divided by no no of surfaces
ds, ds, ds, ds,ds,

Mame: Mohan Sai Class: Bsc. MPC's Roll No: 08624-4213

Assignment

Sem-II

TRANSPORT PHENOMENON *

 $\Rightarrow VISCOSITY$ c A $B \lor V + \frac{dV}{d^{2}} \land A$ $F \lor V - \frac{d^{2}}{d^{2}} \land A$ $\Rightarrow \chi$

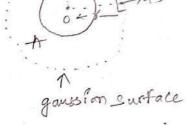
* In a gaseous system the different layers may be have different velocities this will result in the relative motion of different layers with respect to each other in such a case the layer moving faster will transform momentum to the slowly moving layer. Thus the transport of momentum gives the phenomenon of viscosity.

* Let us consider 3 layers of a gaseous system. The AB layer has velocity v it velocity gradiant dv.

I what is an electric field on obser the efectore field equation for a charged sphere when point Lies

- of inside the sphere
- b) over the sphere
- c) outside the sphere

At a point outside the charged sphere Consider a sphere of radius 'R' with centre 'o' as shown in fig Let a charge 'a' uniformorly distri-buted over it.



Suppose 'p' be the external point at a distance 's'
from the centre 'o' of the sphere.

We shall find the spectage field at this point. For this

From the syrometry of charge distribution the slectore field at 'R' point of the Gausspan surface. Ps the same field at 'R' point and it will be I to the surface

.: F Pe Struted along the outward Ps normal for a small Gaussian Surface de res also directed outwards.

groupt Mpcs-naridsem

HT. Not 08624-4154

Subject physics

Sam-II

It describes the distribution of distinguishable particles of a system into different energy levels, let us consider a system of 'h' particles assume that there are 'ni' particles are occupying 'ei' energy level whose degeneracy is 'gi'

 $N = n_1 + n_2 + n_3 - \dots$ $\sum_{i=1}^{10} n_i = constant \rightarrow 0$

 $E = n_1 E_1 + n_2 E_2 + n_3 E_3 - \dots$ $E = n_1 E_1 + n_2 E_2 + n_3 E_3 - \dots$ $E = n_1 E_1 + n_2 E_2 + n_3 E_3 - \dots$ $E = n_1 E_1 + n_2 E_2 + n_3 E_3 - \dots$ $E = n_1 E_1 + n_2 E_2 + n_3 E_3 - \dots$ $E = n_1 E_1 + n_2 E_2 + n_3 E_3 - \dots$ $E = n_1 E_1 + n_2 E_2 + n_3 E_3 - \dots$ $E = n_1 E_1 + n_2 E_2 + n_3 E_3 - \dots$ $E = n_1 E_1 + n_2 E_2 + n_3 E_3 - \dots$ $E = n_1 E_1 + n_2 E_2 + n_3 E_3 - \dots$ $E = n_1 E_1 + n_2 E_2 + n_3 E_3 - \dots$ $E = n_1 E_1 + n_2 E_2 + n_3 E_3 - \dots$

According to the smedynamics probablity of this system (Weight) IN=9:0:

According to statistical mechanics entropy of a system is given by

s = klogw = loggin; = kn:logg; > 1

Differentiating and adding above the three equations dutal Z-tal (knilog gi)=0

By solving these equations n: = 90 - (4)

Where L = H , B = 1 , g; = 4TVP2 AP

the maxwell Boltzmann distribution law is applicable tor liquid and gaseous system only

Maximell-Boitzmann relocity distribution law;

According to maxwell -Bortzmann, the molecules of a system may have the relocity range toom otex by using maxwell's Boltzmann distribution law, the alexage number of gaseous molecules which are having the reloctly from vto rial According to MB distribution law,

Y. Hasin', MPG-B, Sam-IV
1. What is Transverse Empedance and Derive calcultion for it.

When a bave is -transported in -the string then opposite force which is acting against the transportation of wave known as Transverse Impedance st is represented by 'Z'.

It is also defined as ratio between transverse force

It is also defined as ratio between transverse force to transverse velocity.

Z = transverse force (f) .

Consider a 'l' length of storing vibrating with transverse force.

f=folosist and the force which is acting downward direction is -Tsino.

These two forces are educal to each other

f= fo coswt = Tsino.

F = - T-tano

-from the solution of Mansverse wave

$$\left(\frac{dy}{dx}\right) = -A\left(\frac{x}{x}\right)\cos\left(\frac{x}{x}\right)\cos\left(\frac{x}{x}\right)$$

· -ATAY 086224473.

-Assignment-L.

1) Describe the postulates of vicetor atom model and conte above the associated quantum numbers. The Boly and sommerfield atomic model couldn't emplain the following points of the spectra of an atom Bohr doesn't explain the atomic spectours of many electrons Both the models do not explain the fire structure of the Spectral lines Both models do not emplain Freman stark effect. Both models do not emplain the distribution and arrangement

V They do not explain doubtet supespectia of alkali adoms In order to explain the above difficulties of two postulato were proposed in vector atom model (i) spale Quantitation ii) Election spin

(1) Space Quantization . - Bohr and sommerfield atomic models describes the motion of electrons around the only in orbit but these theory do not emplain the orientation of an ollbit in three dimension space

In presence of an enternal magnetic field the angular momentum vector (pl) of an electron makes a precession light motion above the applied field direction

NAME: S: Arun Group! MPCS HT-NO: 08622-4546'
SI-SEM- Sub! Physics.

1 Commom Emitteer configuration

> In common tmitted configuration base is Input and collector is output and tmitted is common to the both base and collector.

* Input characteristics:

-> It is the curive Driaw between Base current [PB] and Base Emitter [VBF] at constant collectors Fmitter Voltage [Vct] the circuit Diagram shown in bedow figure. +MA B IL Re The

-> forom the above. Diagram we obseave the C-E
p-n-p townsistoon to observe base current [PB] one
mille Ammeter [VBE] is connected between base and

Emitteer Volf meter [VBF] is connected between base and Emitteer teaminals to measure base Emitteer Volfage.

-> To observe collectors current [2] at the output one another milli ammeter is connected and for collectors Emitters voltage [Vce] one voit meter

L. Grechanisali 086224445 /Transistor := mpcs-A-VISEM n-p-n Transistor

The lansister in which ap-type semiconductor materi - al is placed between two n-type semiconductor meterial is known as n-p-n Transistor

>> In a - transistor -the 1st Segment (n-type) is coiled emitter and the 3rd large segment (n-type) is called collector while the middle segment (p-type) is called base Hence a - transistor can be defined as a three terminal semiconductor device

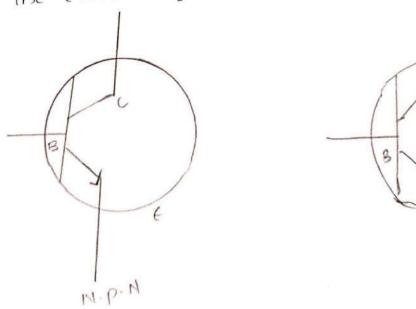
-> In - Iransistor - the current is due -to-the - flow of both majority and minority charge carriers thence it is also called hipolar junction Transistor.

-> A Transistor can be considered as a combination of apon Junction diode but it con't be constructed

C

P- N-P

-> The circuit symbol of hansister is shown in lig



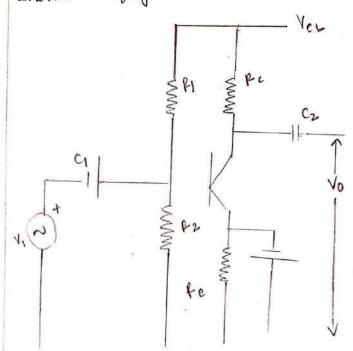
Construction:

A transistor is a three terminal semiconductor device.

Name: K. Deepthi - mpis-VI SEm. 49-20. 086224423

Explain the construction and working of pc coupled amplifies along with 1-1's frequency response.

When a transistor 1s used as an amplifer under 'cc' configuration the transistor must act an active region and during the both half cycles of apput Ac Signal the BC function must be forward bias morever the apput voltage should be more than 0.7V for Si. The base emitter function voltage VBC is temperature dependent. Hence, whenever the temperature of the device changes the amplification of amplifier changes. Hence while designing an amplifier using a transistor, these factors must be addressed one of the stable biasing circuit as an amplifer called 'fc' coupled amplifier is



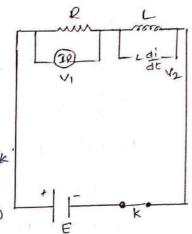
→ In fc coupled amplifes the stability issues of the derice will be minimized by adopting a voltage divided beas circuit. It contains a secres combination 2-resistors Rg R2 robich provide the required potential.

Topic ; 2) Growth of current of delay of current in LR Circuit 2) LCR parallel Cre, cuit

LR- Ciscuit:

Growth of current:

Let us consider an Inductor of selt Enductance L' is Connected to a DC source E' through a resistor of resistence R'and Key'k' in sexes When the key is switched on the Current in L



the Circuit Started to Encreases that the current in the Circuit increases, slowly to seach

81/3 Steady state Value.

to ACC TO KIL

$$\frac{1}{E - IR} = L \frac{dI}{dE}$$

Multiply with - R' on both sides

$$\frac{-R}{E-R} dI = \frac{-R}{L} dt$$

Integrated above egn

$$\int \frac{-R}{E - IR} dI = -\frac{R}{L} \int dt$$

$$\int \frac{f(x)}{f(x)} dx = log f(x) + C$$

ASSIGNMENT Name: B. Ruchitha Course: M. G.

Name & B. Ruchitha

course & Mtcs

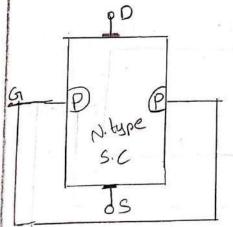
Hall rot wooz

Subject: Glectronic's

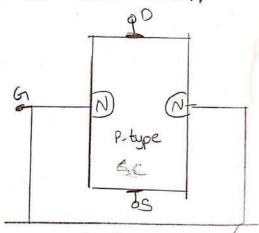
Sem-TI

Construct of JFET

FET can be frabicated with N-channel (08) P-channel for construction of N-channel a nenosemiconductor of N-type semiconductor is taken two p-type junctions are diffused on opposite sides these junction from two PN-diodes and threeze 2 p-region are interconnected which is called as gate and the constacts made at 2 ends of the bax is called as source and another one is drain,



N- Channel



P-Channel

If the box is of N-type then it is called as "N-channel IFET" and if the box is the p-type then it is called "P-channel IFET"

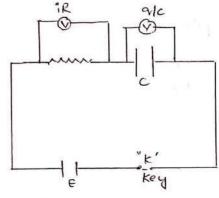
V. Rgerb, MECs., Sen-J Dool Ive

TRANSTENT RESPONSE OF RC- CIRCUIT

CHARGING OF CAPACITOR

to de source E through a resistor of resistance R and
A key K in seedes

When the key k is switched on the charging process of Capacitus starts the Charge on the Capacitus increases with thme and seaches Maximum in skant duration of the



Ace to KYL

$$R \frac{dq}{dt} = \frac{CE-q}{c} \qquad \left(i = \frac{dq}{dt}\right)$$

Integrate above can "

ASSIGNMENT

R. Vanshi B.S. (MECS) ORBANHONI

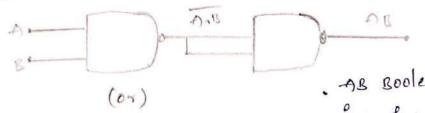
* Design of basic gates using the universal Gates NAND, NOR?

Universal gatest

- * NAND Gate is a universal Gate
- ANAND Gate is known as universal gate because it can be used to realize all the three basis logic function of an OR, AND NOT gate.
 - i) NOND en NOT Gater
 - =) It the two inputs of NAND gate are consected -together then we get 'NOT gate.

A. D. T. A. B. Then NAND' gate acts as NOT gate.

1) NAND as AND gate;



AB Boolean express



- :) MAND as OR Gate:
- => OR gale can be made out of the three NAND Gates.
- =) It complimented inputs are applied to NAND



KISHANPURA, HANAMKONDA

DEPARTMENT OF BIOTECHNOLOGY

STUDENTS ASSIGNMENTS 2023-2024

GROUP: BTBC/BTZC/BTBZ/BTMIZ/BTMIC

CLASS:SEMESTER-V/VI

TOPICS: 1) Artificial seed production.

2) Biodelignification.

LIST OF STUDENTS:

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15	086223114	MEKALA SATHWIKA	M. Shthrocka
16	086223115	NAGANABOINA SRIVARSHA	N-Solvansher
17	086223116	PARUPATI ABHIRAM REDDY	P-Abhisam redd
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5	086223955	NEERUDU NAVYA	N. Navya
6	086223957	RAGHUSALA NIHARIKA	R - Niharika
7	086223958	RAKAM ASHWINI	K. Ashwini
8	086223959	RANGU SHIVAKRISHANA	R. Stivakiishoa
9	086223950	SUTHARI ROJASRI	s. Rojashi
10	086223961	TALLAPALLI REEMA	T. Reema
11	086223952	VOLADRI VYSHNAVI	V. Vyshrari
12	086223963	YEDDU SIRI	4. Sin
13	086223964	YERRA VASAVI	y. Vasavi

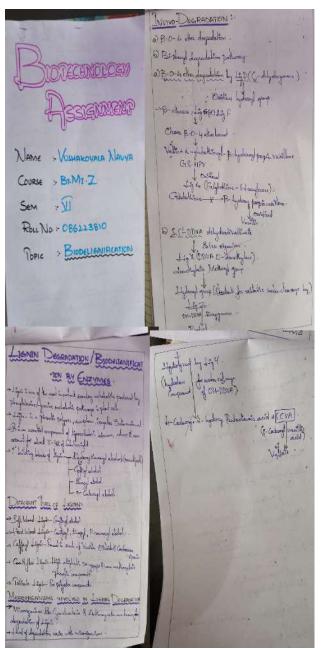
_	rse:BTMIC (EM	Student Name	Signature
SNo	HALLTICKET_NO	AMARAI VAMSHI	A. Vamshi
1_	086223001	AYESHA FARHEEN	A. Farheen
2	086223002	BULLE SHIRISHA .	B. shirisha
3	086223004	DEVUNURI SRIHARSHA KUMAR	D. Snhansha kuma
5	086223005	DURGALA VIGNESH	D. Yahikanth
6	086223006	DURGAM SHASHIKANTH	D. Shashinanth
7	086223007	ESARAPU SATHWIK	E. Bothwik
8	086223008	ITHIREDDY SHIRISHAREDDY	g. shirishakeddy
9	086223009	IYLA NITHISHA	J. Nithusha
10	086223010	JANGILI VINAY	J. VINAY
11	086223011	KALAKONDA VARUN	K Vasun
12	086223012	KASARLA MURALIKRISHNA	K. Musalikeidna
13	086223013	KOTHAPELLY RESHMA	k. Reshma
4	086223014	KURIMILLA SATHWIKA	K. Sathwiller .
15	086223016	PALLERLA SOUMYA	P. Sainga
16	086223017	THEEGALA VIVEK CHAITHANYA	T. VIVEK
17	086223018	THUMMALA SAI RAM	T. Fairan
18	086223019	VAJJAKESHAVULA PRANAY KUMAR	V. Pranay kumaur

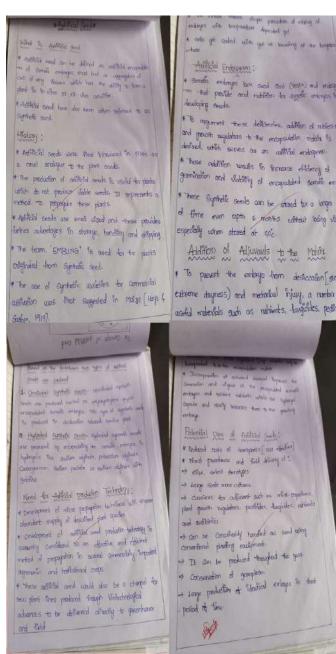
Cou	rse:BTBZ (EM)	Totalina	Signature
SNo	HALLTICKET_NO	Student Name	1 1 1 1 1 1 1 1 1 1 1
1	086223701	AZMEERA KEERTHANA	A. keerthana
2	086223702	BAVU AKHIL	B. AKhil
3	086223703	BONAGANI VARDHAN	8 - vardhoro
4	086223704	JATTI KAVERI	J. kaveli
5	086223705	KANDIKONDA SAI RAM	K. Sai Jan
6	086223706	LINGAM VASAVYA	L. Vasavya
7	086223707	NAGABELLY SAI KRISHNA	N. Sai Krishua
8	086223708	ODELA VAMSHI	o. ramshi
9	086223709	PADALA SATHWIKA	P. Sathwika
10	086223710	PORANDLA BHOOMIKA	P. Bhoomma
11	086223711	RAYIKANTI PRANAY	R. Pranay
12	086223712	SHAIK ASIF PASHA	s. Asif Pasha
13	086223713	SHIVARATHRI TEJASWI	3. Tejashari
14	086223714	THALLA RUTHKIRAN	T. Ruthkivan
15	086223715	VISHNUBHAKTHULA RAKESH	V. Raixesh

SNo	HALLTICKET_NO	Student Name	Signature
1	086223801	AVULA RISHIVARUN	A. Rishivarun
2	086223802	BOLLAM HARIKA	B. HARIKA
3	086223803	ETALA AKSHAYA	C. AKShaya
4	086223804	GUNDETI HARINI	9. Harini
5	086223805	KUNTA VIJENDAR	k. wiendon
5	086223806	KUSUMA BHAVANI	K. Bhavani
7	086223807	MOHAMMED KHAJA SHAMSHUDDIN	m. Kalak damshooth
8	086223808	RAVULA SANDHYA	P-Sandhya
9	086223809	SUMAIYYA NAYEEM	sumanayeem
10	086223810	VUSHAKOYALA NAVYA	V - 120:40

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ASSIGNMENT:





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GROUP: BTBC/BTZC/BTBZ/BTMIZ/BTMIC

CLASS:SEMESTER-III/IV

TOPICS: 1) prokaryotic transcription, splicing.

2) Measures of central tendency and dispersion.

LIST OF STUDENTS:

1 23-3-601	MOHAMMAD ANKUSHAWALI	M Anktohawali
2 23-3-602	BOIRA VIKRAM	B. Vikoren
3 23-3-604	BOLLAM SRIVIDHYA	B. snividnya
4 23-3-605	JANNU TEJASWITHA	T Jejswitha
5 23-3-506	CHAPA MAHONNATH	ch. Mahonnath
6 23-3-507	PURELLA SANKETHIKA	P. Sankethika
7 23-3-508	KASARLA MANASA	K. maraja
8 23-3-509	THUMMALA MOUNIKA	Mountka T
9 23-3-510	DUMPALA SHIVATHMIKA	D. shivathmika
10 23-3-511	KESHABOINA SRINITHA	K. Srinitha

A. Ludulah

Cour	se: BTBZ (EN	
SNo	Admin No	Student Na
1	23-3-903	POLU SANDHYA
2	23-3-904	BALABATHULA AISHW
3	23-3-906	JANNI SRAVYA

Principal

4 23-3-907	GAJULA SHIVA	
5 23-3-908	GUDIKANDULA RAJ KUMAR	G Raj Fumay
6 23-3-909	MANGA NITHIN	M. N. Hin
7 23-3-910	TOLEM INDHU	7. Indu
8 23-3-912	PEDDI DIVYA	P. Divuja
9 23-3-913	TEKUMATLA RAKESH	T. Katash
10 23-3-914	RAGI SHIVANI	R. Shivash
11 23-3-915	VUPPALA MUKTHA CHANDANA	V. Mutha chandana.
12 23-3-916	AZMERI	Azmeri.
13 23-3-917	NALLAGONDA AKSHITHA	N. Akshitta
14 23-3-918	GADDE SRIPRIYA	Gr. Stipting

Vaagdevi Degree
Kishanpura, I

SNo	Admin No	Student Name	Signature
` 1	23-3-801	MANTHENA ROHITHA	M. Rohitha
2	23-3-802	NERA AISHWARYA	N. Ashwaryen
3	23-3-803	MANDA MOKSHAGNA	m. mokshagana
4	23-3-804	KARANGULA SUCHITHA	K. Suchitha
5	23-3-805	KUNAL BHADRA	k. Bradra
6	23-3-806	BOMMATHI LASYAVARDHINI	B. Lasupwardlini
7	23-3-807	THOKALA ASHWINI	T. Doshazni
8	23-3-808	AKULA KALYANI	A. Kalyeni
9	23-3-810	ALLABOINA GREESHMIKA	Greeshonika A
10	23-3-811	BANOTH SWAPNA	R Sunona
11	23-3-812	SHANIGARAM SAI VAMSHI	s. sai Vamshi
12	23-3-813	MEDIPELLY SOUMYA	M. soumya.
13	23-3-814	ANABHATHULA UMESH	A. UMesh
14	23-3-816	KUNDARAPU HARINI	kHazini
15	23-3-817	ADEPU DEEPTHI	A. Deepltoi
16	23-3-818	ARUKALA RAHUL	A - Rahul
17	23-3-819	KODAPAKA ISHWARYA	K. Ishwaya
18	23-3-820	BUKYA SWATHI	B. swathi
19	23-3-821	MEKALA VINITHA	M. VIDITHA.

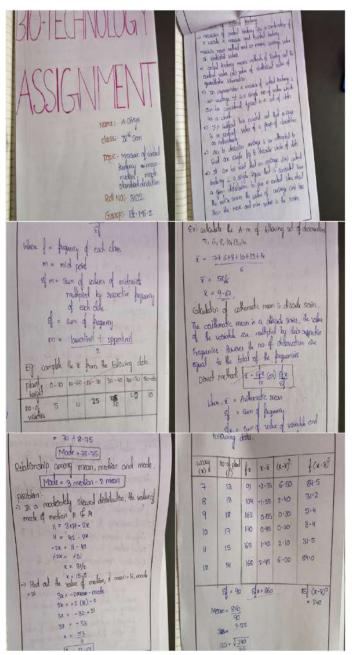
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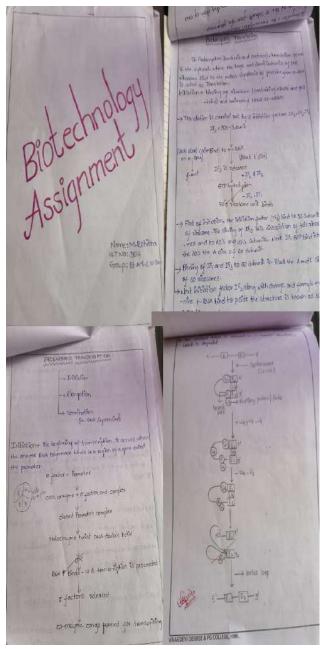
8 23-3-9 23-3-

10 23-3 11 23-3

min No	Student Name	Signature
-701	CHENNA RAGHU	C. Poghi
-702	JAVAJI SANKEERTHANA	T. Santeesthana
-703	ADEPU SWATHI	A Gentles
-704	AISHA SULTANA	- nisha gulthama
-705	PATHURI SUJU	P-585512
-706	MAHAMMAD ROSHINI BEGAM	M. Rashon Beggan
-707	SRIPATHI BHARATH	3. Bharath
709	GOPAGANI DILIP	G. 2711P
-710	KADASU SRAVANI	k. Svavani
-711	KANNALA RAHUL	K. Rahus
-713	SHAKAPURAM SAI RAM	S, Ballours
-714	JANGA SAI KRISHNA	J. Sai Hishno
-715	CHINTHIREDDY ANIL REDDY	CH. Anil Reddy
-716	DASARI REVATHI	D- Revath
-717	THALLA RITHVIK	T. Rishwik
-718	GOLLA ANIL	G. Anil
-719	KAMIDRI RAVITEJA	K. Parteja
720	THALLA PRABHAS	T-Prabaces
-721	GONELA RAHUL	Rapid Go
-722	BOLLE DHANUSRI	B. Dhanusn

Assignments:





Principas

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GROUP: BTBC/BTZC/BTBZ/BTMIZ/BTMIC

CLASS:SEMESTER-I/II

TOPICS: 1) Ultrastructure of prokaryotic cell.

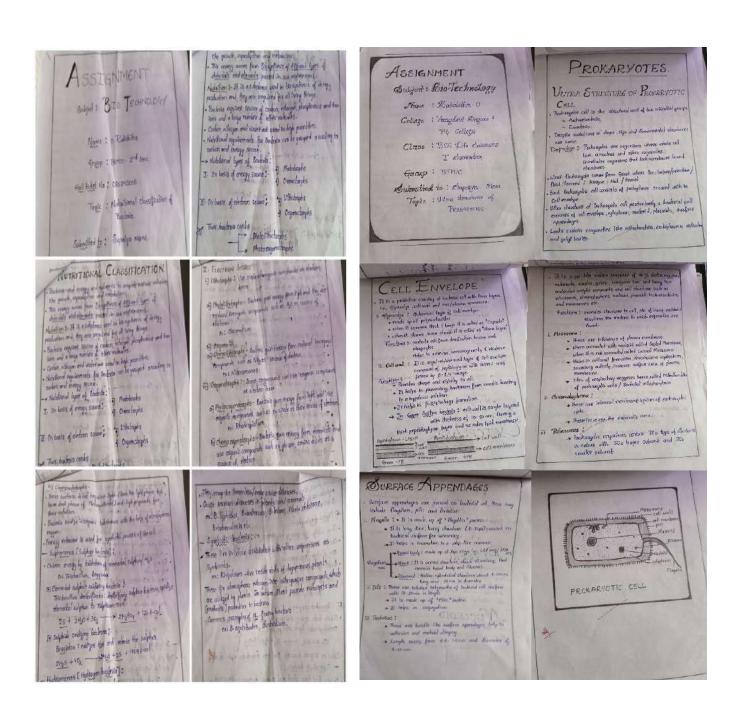
2) Nutritional classification of bacteria.

LIST OF STUDENTS:

60		/		
Attendones	The state of the		S. Sahasna	sotasna
THE CONTRACT OF THE CONTRACT O		27	Nanendrakuman	Navendra Kumar
List of students:	MANAGE MANAGEMENT	20	M. Kanakeshwan	M. Karakethuars
so Shedent Names	Signatures	-295	P. Rahul	Rabul
Allam Reulika	Allam Rushika	301	/ Kanus	Examinya
& B. Sapavan trumpy	B. Catipavan	312	S. Kanunya	Abhirgm
le B. Dhornyalia	Claryali .	325	y, Radhika	Raduma
1. D. Gopika	D. Giepika	332	D. Ronridhi	D. Stindhi.
1 Ke Vedoroth	Vedautto	34	G. Varunkumar	Varun
S. K. Abhinaya	K. Alhinayou	35>		K. Anutha
The N. Prachangel	N. Praihensh.	361	K. Anusha	B-Likith.
& T. bxman	I. rabeau	375	BIGHT	O Ratshitta
9> ViBhurona	e. Dhwana	30	O. Rakhitha	Akshaya
D Y. Nikki	Y. NEKHIL	391	S. Akshaya	V. Deepa.
113 Gr. Bhanu	G. Bhanu.	407	V. Deepa	In the
12) Novachátonya Dri	neared	412	B. Manohast	
B M. InGowa	-Signai	423	Shue laxmi Sindhuja	Sindly
145 S. Vaidmavi	Vail	93)	· Gr Malaspee	Matro-
15 Y. LOVEKIK Reddy	LOVEKIR Boddy.	44)	R. Snichika	sui ctot
162 G-Ajith J	A jith	10	S. Hasini	Hasini And I
17) B. Kerthik	8-Karthik	46)	Umima. Agthar	Manos 19ther
184 K. Surya	Ly	43		nava kuman
193 V. Varnshi Krishna.	vamdiki istma	481	B. Bhance	Bhano
301 J. Nagendera	Novembra.	49	E AKShitha	- Fisme
21 Y. AKKII.	AKhil.	50)		glinivas
22) J. Wilteesh	witeech.	-		
23) Gr Varchini	Greatshini			
28> M. Snekith	M. Soehith			
m. Ashirom	M. Abhiran	180	1 7 7 7 8 7	A DESCRIPTION OF THE PERSON OF
ers mr Rakshitha	M. Rakflitta		NAME OF TAXABLE PARTY.	
21) P. Sheratt Kumar	P. Sharactt			THE REAL PROPERTY.

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An Autonomous Organization KISHNAPURA,HANAMKONDA

Class:Bsc.I Year-I semester

Subject:zoology **Group**: BTBZ

Topic:Life cycle of Elphidium

S.NO	Hallticket no.	Name of the student	signature
1.	086243601	GUGULOTH AJITH	They
2.	086243602	JANGA NITHEESH	Nitheesh
3.	086243603	JANGILI NARENDRA	x favendea
4.	086243604	BOLLAMPALLI KARTHIK	dut.
5.	086243605	GORRE AKSHAYA	Alehoyo
6.	086243606	RODEPAKA SURYA	1 of
7.	086243607	MERUGU AJAY	Am
8.	086243608	VANGARI VAMSHIKRISHNA	Vamely

A. Principal
Vaagdevl Degree & P.G. College
Kishanpura, Hanamkonda

Class:Bsc.I Year-II semester

Subject:zoology
Group: BZC
Topic:Scolidon respiratory system, parental care in amphibians

S.NO.	Hallticket no.	Name of the student	signature
1.	086243301	SORUPAKA ANKITHA	Anlestha
2.	086243302	AKULA SATHWIKA	Silhuika
3.	086243303	ALAKUNTLA MAHESH	Mahesh
4.	086243304	ARIDRAPU SRUTHI	South
5.	086243305	BANOTHU NIKITH	Nikolh
6.	086243306	BATTINI LAXIMIPRIYA	Laxing Porys
7.	086243307	BATTU KEERTHANA	Keetland
8.	086243308	BUDIME RAMPRASAD	Ramprasad.
9.	086243309	CHALLAGOLLA NAVYA	Narya
10.	086243310	CHITTIMALLA RAHUL SAI	Polul.
11.	086243311	D. SUDHA RANI	Sullharani
12.	086243312	DANDEMPALLY BHARATH	Bharith
13.	086243313	DHORI DIVYA	Divya
14.	086243314	EGGADI VARSHITHA	Darkitha
15.	086243315	ESLAVATH SAI	Saj
16.	086243316	GARDASU HARSHITH	Harshill.
17.	086243317	GIRABOINA SURESH	Buresh
18.	086243318	GOPAGONI NIKITHA	Nikelta
19.	086243319	KATLA UDAY KIRAN	Lucan

Principg! Vaagdevl Degree & P.G. College Kishanpura, Hanamkonda

Class: Bsc. II Year-I semester

Subject:zoology
Group: NDZC
Topic: Muscle contraction, social behavior

S.NO	Hallticket no.	Name of the student	signature
1.	086233401	AADIBA AZEEMUDDIN	Steemullin
2.	086233402	ASMA MAHAVEEN	Asmamahaveer
3.	086233403	AYESHA FARNAZ	faspar
4.	086233404	BASHABOINA HARIPRIYA	Harifriya.
5.	086233405	BHUKYA ANJALI	driali "
6.	086233406	BHUPATHI KEERTHANA	Keestiana
7.	086233407	BOBBILI RAKSHITHA	Rakshitha
8.		BODA BHUVANA	
0.	086233408	CHANDRA	Bhuana chandra.
9.	086233409	BOINI UDAYA BHANU	Bhanu
10.	086233410	BOMMA PALLAVI	Pallavi
11.	086233411	BOYINI AKSHITHA	akchitha
12.	086233412	CHELLOJU VYSHNAVI	Vyshanavi
13.	086233413	CHENNURI SWETHA	Swella
14.	086233414	CHITTEM SAI SHIREESH	Shireesh.
15.	086233415	GADDAM POOJITHA	Poitha
16.	086233416	GALI PRAVEENA	Pravien
17.	086233417	GANTA SWETHA	Buf
18.	086233418	GOLKONDA ROHITH	Rohith
19.	086233419	JAKKULA HARIKA	Harrikal
20.	086233420	JANGA SANKALPITHA	Sankalpitha.
21.	086233421	JANNARAM VAISHNAVI	Carlinair
22.	086233422	KARAM LAXMISREEJA	Laxing breeze
23.	086233423	KARNAKANTI VAISHNAVI	valshnavi
23. 24.	086233424	KAYITHOJU NANDINI	Dandini"

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Kishanpura, Hanamkonda

Class: Bsc. II Year-II semester

Subject: zoology
Group: FSBZ
Topic: Plasma membrane, sex determination, types of eggs, placenta

S.NO	Hall ticket no.	Name of the student	signature
1.	086233131	DUPPATI VIKAS	Vika
2.	086233132	AVULA SRIJA	Solia,
3.	086233133	BACHATI AKHIL	AKKI
4.	086233134	BATTU ANUSHA	Amel
5.	086233135	BOINWAR AKHIL	AKhil
6.	086233136	BUTTI SAMHITHA	Samhfile
7.	086233137	DATLA PRABHAS	Prabhas
8.	086233138	EDULAPURAM AMULYA	-Anuly@p
9.	086233139	GADDAM PUNEETHA	Puneetha.
10.	086233140	GAJULA ABHIGNAY	Albhignay.
11.	086233141	GANAVENI DEVIPRIYA	Derifrie
12.	086233142	GANDE VARSHA	Varsha"
13.	086233143	JAKKULA SAIKUMAR	Saikunary
14.	086233144	KUNSOTH SUMATHI	Sumathi
15.	086233145	MASNA PRAVALIKA	Bavalika
16.	086233146	MISBAH KAUNAIN	Kamain
17.	086233147	MOGILI AJAY KUMAR	Ajujkumar.
18.	086233148	MORTHALA NAVEEN	Ny

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Class: Bsc. III Year-I semester

Subject: zoology **Group:** NDZC

Topic: Transgenic animals, r-DNA,technology

S.NO	Hallticket no.	Name of the student	signature
1.	086223151	ANNA NIKITHA	My
2.	086223152	BASANI MANASA	Maraca
3.	086223153	BHURAY INDA	Indu
4.	086223154	BURRA RAMYASREE	Rangasse
5.	086223155	CHEPURI DEEKSHITHA	Deekshithe
6.	086223156	CHIRRA SHIVA KUMAR	By
7.	086223157	ENUKAMETLA SAITEJASWINI	Leissin
8.	086223158	GUNDA ANKITHA SREE	Aus
9.	086223159	HEBA TABASSUM	Heba tabasum
10.	086223160	RASHI BASHMIRA	Ry
11.	086223161	KASUSAR FATIMA	Satimor
12.	086223162	KURIMINDLA SIRICHANDANA	Sexchardana
13.	086223163	MAZEEN FARHA	dasher
14.	086223164	NEHA AFREEN	Afrien
15.	086223165	PASUNOORI VIJAYALAXMI	July .
16.	086223166	POLUDASARI NIHARIKA	neig
17.	086223167	POLUDASARI PRAVALIKA	Pravaliky
18.	086223168	PONGANTI AAKANKSHA	Agkankeli
19.	086223169	THUMUGANTI APARNA	ay
20.	086223170	ZAINAB GHAZALA	Zanab
21.	086223171	MOHAMMED SABA JABEEN	Sabajabeen

A. Principal

Vaagdevi Degree & P.G. College

Kishanpura, Hanamkonda

Class:Bsc.III Year-II Semester

Subject:zoology Group: BZC

Topic- Ultra structure of skeletal muscle, Bohr effect, transport of co2

S.NO	Hallticket no.	Name of the student	signature
1.	086213356	NEERATI VAMSHI KRISHNA	Vanshikrishna,
2.	086223301	ADULA AKHIL	-Alphil
3.	086223302	ADUNURI LOHITHA	Lohith
4.	086223303	AJMEERA SOUJANYA	Soujanya.
5.	086223304	AMGOTHU RAJENDAR	Rajendar
6.	086223305	ARELLY MEGHANA	Meganag
7.	086223306	AZMEERA HANMANTHU	Hanmanthu
8.	086223307	BANALA MADHUVANI	Madhury
9.	086223308	BANDARI PRAVALIKA	Pravalika
10.	086223309	BHUKYA ANKITHA	Ankitha
11.	086223310	BONTHALA NAGARAJU	Magaraju
12.	086223311	BUSA RISHITHA	Rishithe
13.	086223312	CHINNALA ANANYA	dinaneja
14.	086223313	DEVARAJULA KALYAN	Labian
15.	086223314	DHARAVATH GANESH	Ganesh.
16.	086223315	DUBYALA SAIKIRAN	Barkisay
17.	086223316	EDLA ASRITHA	Assilhat
18	086223317	ERRA RANA PRATHAP	Rana Brathap.
19.	086223318	GAJIREDDY RAMADEVI	Ranader
20.	086223319	GAJEELA PRASANNA	Prasaura.
21.	086223320	GATTU VAMSHI	Vamshi
22.	086223321	GILAKATHULA BHAVANI	Bhavani '
23.	086223322	GODDE ARJUN NIVAS	defunnivas.
24.	086223323	GUGULOTHU YOCHANA	Yochana.
25.	086223324	GUGULOTHU GANESH	Gonesh
26.	086223325	GUGULOTHU ROHITH KUMAR	Def
27.	086223326	GUGULOTHU SATHISH	Sathish
28.	086223327	GUMMADI AKHILA	Akhila.
29.	086223328	HAFIYA BANU	Bany

C. Padmavali

Department of Zoology

VAAGDEVI DEGREE & P.G. COLLEGE

Hanamkonda

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Kishanpura, Hanamkonda



KISHANPURA, HANAMKONDA

DEPARTMENT OF BIOTECHNOLOGY

ACTIVITY: Group discussion

NUMBER OF STUDENTS PARTICIPATED: 18 students participated from B.Sc. Biotechnology

ORGANISING DEPARTMENT: Department of Biotechnology

NUMBER OF GROUPS DIVIDED: 3 (A, B, C)

GROUP-	GROUP- B	GROUP-C
Α		
S.Hasini	O.Rakshitha	K. Sai ram
Ashwini	K. Anusha	SK.Asif Pasha
B.Sirisha	Y.Nikhil	B. Saipavan
V.Navya	Sijjureddy	K. Shireesha
B.Harika	B.Srinitha	B. Danyasri
A.Rushika	Sankeerthana	Mounika



OUTCOME: Group-B won in group discussion

ACADEMIC YEAR 2023-24

GROUP DISCUSSION

In the Academic year 2023-24 we Botany Department conducted anoup Decusion on the topic - "Impact of Social Media" under the supervision of pr Sateesh Suthasi Hod, Botany Dept, R. Bhargavi, M. Kavitha E. K. Manisha.

which was successful by the active participation of students.

Group - A

١,٠	08624 - 3316 - Gr. Harshilt	12
2.	3331 - A. Rajilha	
3.	3513 - Gr. Rajasri	
ч.	3524 - K. Abbishek	
·5.	1. 3408 — S. Manikanta	
6.	11 3412 - B. Akhila	
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VAAGDEVIDEGREE& P.G. COLLEGS
Kishanpura, Hanamkonda

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C)	YOU	n	-	4
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VAAGDEVI DEGREE & P.G. COLLEGE Kishanpura, Hanamkonda. Result: - Todays group discussion was conducted on Topic - Impact of Social Medica. 2 groups are involved and actively participaled Aller the competition "Group-B" gains winning position of todays competition. The Oliver. Principal. VAAGDEVIDEGREE & P.G. COLLEGE Kishanpura, Hanamkonda.

> Principal Colored Calesto Kada L. Hogon

VAAGDEVI DEGREE & PG COLLEGE

Dept. of Business Management (MBA Programme)

CO CURRICULAR ACTIVITIES

GROUP DISCUSSION – (2023)



Topic: E Learning a Substitute for classroom teaching.

Faculty coordinators: Dr. S. Mahender kumar & Dr. P. Sugunakar Reddy

MBA II SEM Students participated in the Group Discussion on Date: 04-11-2023

List of students participated in GD: Revanth

Umar

Ramyasree

Ayesha

Tabassum

Sulthana

Rashmitha

Jyothi

CO CURRICULAR ACTIVITIES

GROUP DISCUSSION – (2023)



Topic: Is Globalisation harmful to local cultures?

Faculty coordinator: Mrs. S. Shambhavi

MBA II SEM Students participated in the Group Discussion on Date: 30 -12 - 2023

List of students participated in GD: Balu

Vikram

Ayesha

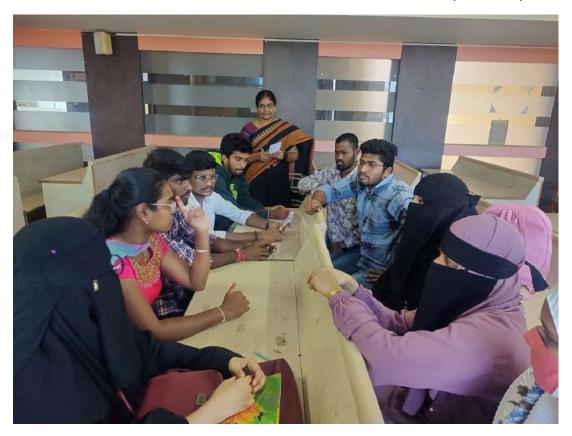
Jhansi

Shirisha

Aseen

CO CURRICULAR ACTIVITIES

GROUP DISCUSSION – (2023)



Topic: Should Internships be mandatory in post graduation

Faculty coordinator: Mrs. Ch. Karuna

MBA II SEM Students participated in the Group Discussion on Date: 12-02-2024

List of students participated in GD: Sunil, Ayesha, Afreen, Ramya, Ayesha Sultana

Tabassum,

Venkateswarlu

Pawan

Akram

Annammaiah

Aseen

CO CURRICULAR ACTIVITIES

GROUP DISCUSSION – (2023-24)



Topic: Artificial Intelligence and its Impact on Society.

Faculty coordinator: Mrs. T. Anusha

MBA II SEM Students participated in the Group Discussion on Date: 16-03-2024

List of students participated in GD: Rakesh

Raghu

Rajitha

Thirumala

Alekhya

vamshi

CO CURRICULAR ACTIVITIES

GROUP DISCUSSION – (2023-24)



Topic: The effects of social media on human interaction.

Faculty coordinator: Mrs. Chandrakala

MBA II SEM Students participated in the Group Discussion on Date: 29-04-2024

List of students participated in GD: Nikhil, Revanth, Pooja, Kalyan

Pawan

Poojitha

Vishnu

Kalyani

Rashmitha



VAAGDEVI DEGREE AND PG COLLEGE

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Accredited with 'A' grade by NAAC

DEPARTMENT OF CHEMISTRY

ADVANCE LEARNERS

QUIZ COMPETITION

GROUP DISCUSSION

WORK SHOP



VAAGDEVIDEGREE&P.GCOLLEGE



KISHNAPURA, HANUMAKONDA

ACADEMIC YEAR 2023-2024 I YEAR I SEMESTER

In the academic year (2023-2024) for the students of I year I semester, we conduct a **quiz competition** in chemistry to enhance basic knowledge in chemistry.

Students are participated actively shows their interest positively.

It was conducted on DATE.....

TOPIC: - CHEMICAL BONDING.

GROUP "A" GROUP "B" now III FS STUDENTS

H.T.N O.	STUDENT NAME	H.T.NO.	STUDENT NAME
1. 086243901	Pavani	1. 086243902	Kishore
2. 086243904	Shivani	2. 086243912	Anjali
3. 086243906	Rohith	3. 086243919	Nikhil



RESULT: All groups showed keen interest in the competition and finally group-**A** was the winner and group-**B** was the runner-up team.

ACADEMIC YEAR 2023-2024 II YEAR I SEMESTER

In the academic year 2023-2024 for II year I semester we conducted a quiz competition in chemistry to enhance their knowledge in chemistry.

Most of the students showed their interest and participated actively it was conducted on DATE.....

TOPIC: CHEMISTRY OF F- BLOCKS ELEMENTS.

GROUP "A"		GROUP "B"	5 TH SEM
H.T.N O.	STUDENT NAME	H.T.NO.	STUDENT NAME
1. 086233651	Koushika	1. 086233656	Tharun
2. 086233653	Sriteja	2. 086233659	Akhila
3. 086233654	Sagar	3. 086233663	Lohitha



RESULT: All the students are participated actively **group- B** was the winner.

ACADEMIC YEAR 2023-2024

In the academic year (2023-2024) for the students of III year I semester, we conducted a group discussion about chemistry in everyday life.

All the science and math's students participated actively.

Group-A students started the debate about positive response on topic, they were explained detail about use of chemistry in daily life.

Group-B students debated about effects of chemicals on environment. It was conducted on DATE.....

TOPIC: - CHEMISTRY IN EVERY DAY LIFE.

GROUP "A" GROUP "B"

T. NO.	SUDENT NAME	T.NO.	SUDENT NAME
1 086223251	mavi	1 086213336	Swathi

086223253	nthoshini	086213344	Abhinaya
086223255	avani	086213353	Srivarsha



RESULT: After an active participation of all students Group-A won the today's competition in group discussion about CHEMISTTY IN EVERY DAY LIFE.

ACADEMIC YEAR 2023-2024 I YEAR II SEMESTER

In the academic year (2023-2024) for the students of I year II semester, we conducted a WORK SHOP on CHEMICAL HANDLING SAFETY METHODS.



RESULT: After an active participation of all students WORK SHOP was conducted smoothly and successfully.

ACADEMIC YEAR 2023-2024

II YEAR II SEMESTER

In the academic year 2023-2024 for II year II semester we conducted a quiz competition on GENERAL CHEMISTRY techniques and the importance of chromatography in research level.

It was conducted on DATE.....

GROUP "A"

GROUP "B"

H.T.N O.	STUDENT NAME	H.T.NO.	STUDENT NAME
1 006224002	A V outbile	1 006224005	CH Vijor vordbon
1. 00022.002	1 II I I I I I I I I I I I I I I I I I	1.00022.000	CII. · IJaj · aranan

2. 086224007	D.Nikhil	2. 086224013	M.Deepak
3. 086224009	K.Rohit reddy	3. 086224015	M.Anusha

GROUP "C"

GROUP "D"

H.T.N O.	STUDENT NAME	H.T.NO.	STUDENT NAME
1. 086224017	R.Ranjith	1. 086224020	R.Pavithra
2. 086224019	M.Bhuvaneshwar	2. 086224001	A.Rishiteja
3. 086224022	S.Arun kumar	3. 086224004	B.Mahendar



GROUP - A&B

GROUP - C&D

RESULT: All groups showed keen interest in the competition and finally group-A was the winner and group-B was the runner-up team.

ACADEMIC YEAR 2023-2024 III YEAR II SEMESTER

In the academic year (2023-2024) for t	he students of III ye:	ar II semester, we o	conducted a WORK SHOP or
functioning of DISTILL WATER PLANT.			

It was conducted on DATE.....



RESULT: Students are actively participated and well educated about the **DISTILL WATER PLANT**.



KISHANPURA, HANAMKONDA

DEPARTMENT OF BIOTECHNOLOGY

ACTIVITY: Quiz competition

ORGANISING DEPARTMENT: Department of Biotechnology organised quiz competition on the occasion of SCIENZA event.

PARTICIPANTS: students from other colleges and also B.Sc. science students from Vaagdevi College have been participated in the event.

NUMBER OF ROUNDS: 3 (Written quiz, group quiz, final round photo display)







FINAL ROUND:







OUTCOME: Among all participants, those who qualified for both rounds are called-up for final round. In this, participants are divided into two groups. Group-1 won in quiz.

ACADEMIC YEAR 2023 - 24

Quiz Competition

In the Academic year (2023-24) Department of Botany Conducted "Quiz Competition" on the Ropic - rDNA Rechnology to enhance the Competitive spirit and encourage the Students to Participate actively and enrich the students scientific knowledge.

It was conducted on 12023 under the supervision of Botany Head of the Department Dr. Sateish Suthans R. Bhargavi, A. Kavitha & K. Manisha which was successfully conducted due to students active participation.



TEAM - A

1. 086-23 — 3311 — M. Meghamala
2. 11 3312 — M. Nithin
3. 3318 — P. Navya
4 11 3321 — R. Abhinaya
5 11 3328 — B. Hemanth



VAAGDEVI DEGREE & P.G. COLLEGE Kishanpura, Hanamkonda,

TEAM - B (1) (ging 5)

1.086-23,-	3205 - E. Valmshi // 01
2 // "	3139 - Gi. Puneelha
3	3320 + R. /AKhila/
4 1/200 11 11	3149 - 1N. Shyleish
5 (3) 100 110	3212 - S. Anila / Bull

TEAM - C

1. 086 - 23	- 13510 - 1 D. Snehilt
2	- 3206 - Gr. Agravind
3 10	1 3314 - M. Nandini
4 11	- 3056 - k. Srinilha
_5	— 3610 - T. Rakesh

TEAM - D

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Anti-Attachmental Line Control	A STATE OF THE STA	4.0.00000000000000000000000000000000000	THE RESERVE OF THE PROPERTY OF
1. 0	86-23 -	3613 -	Azmeni
<u> </u>	11 -	3055 -	k. Manasa
31	" \ _	3548 -	V- Rishikesh
4.	<u> </u>	- 3315 -	M. Deepika
5	The state of the s	- 3141 -	Gr. Devipriya
3/30.10	2		04

Participated in the Avis competition sho are enthusiastic and showed Keen interest and actively participated and finally TEAM - R are amounted as worney and PEAM - C are Runner

VAAGDEVIDECHEE & P.G. CO.



VAAGDEVI DEGREE AND PG COLLEGE

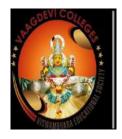
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QUIZ,SEMINAR,GROUP DISCUSSION 2023 -2024

DEPARTMENT OF CHEMISTRY





VAAGDEVIDEGREEANDPGCOLLEGE Hanumakonda, Telangana Accredited by NAAC with grade A

QUIZ, SEMINAR &

GROUP DISCUSSION

DEPARTMENTOFCHEMISTRY

2023-24

ACADEMICYEAR2023-24

QUIZCOMPETITION

IntheAcademic year2023-24Departmentofchemistryhad organized

Quizcompetition to enhance the basic knowledge of students in chemistry
on thetopic—Modern Techniquesin Chemistry

Itwasconductedon09-2 2024undertheSupervisionofS.Rajitha,B.Manisha, O.Santhosh.

GROUP:- A

SNO	HALLTICKET NUMBER	STUDENT NAME
1	086233804	B.PALLAVI
2	086233822	U.SOUMYA
3	086233175	D.REVATHI
4	086233184	P.SIJJU REDDY
5	086233204	B.ASHWITHA
6	086233654	G.SAGAR

Department of Chemistry
VAAGDE // DEGREE & P.G. COLLEGE
Hemman / Smile



GROUP:- B

SNO	HALLTICKET NUMBER	STUDENT NAME
1	086233056	K.SRINITHA
2	086233012	M.MOKSHAGNA
3	086233016	M.RINKU
4	086233436	P.DIVYA
5	086233008	B.SWATHI
6	086233202	B.ANIL

Department of Chemistry
VAAGDEVI DEGREE & P.G. COLLEGE
Hanso Fonda

GROUP:- C

SNO	HALLTICKET NUMBER	STUDENT NAME
1	086233424	K.NANDINI
2	086233439	R.GEETHIPA
3	086233666	V.DATTATHREYAH
4	086233311	M.MEGHAMALA
5	086233655	I.HARIPRIYA
6	086233312	M.NITHIN

Result:-

 $Group-Cwas declared as the winner\ of the competition with active participation$

Department of Chemistry
VANGDEVI DEGREE & P.G. COLLEGE
Hansa Forda

ACADEMICYEAR2023-24

SEMINAR

Name of the Student:-J.VINAY

HallticketNumber :-086223010

CourseGroup :-Bt.Z.CIVsem

Hananionia

SEMINARTopic :-Drug Chemistry

ACADEMICYEAR2023-24



Department of Chemistry
VAAGDEVI DEGREE & P.G. COLLEGE
Havan rosta

SNo	HT_ NO	Student Name	Signature
1	086223002	AYESHA FARHEEN	A · Seusan
2	086223003	BULLE SHIRISHA .	B. shoopha
3	086223004	DEVUNURI SRIHARSHA KUMAR	D. Winsh
4	086223005	DURGALA VIGNESH	p. vignely
5	086223006	DURGAM SHASHIKANTH	D. Shashikauth
6	086223007	ESARAPU SATHWIK	E. sathurk
7	086223008	ITHIREDDY SHIRISHAREDDY	1. shouthageath
8	086223009	IYLA NITHISHA	J. Nithoga
9	086223010	JANGILI VINAY	J. vinay 1
10	086223012	KASARLA MURALIKRISHNA	k. Muora li kons hu
11	086223013	KOTHAPELLY RESHMA	K. Rehun
12	086223014	KURIMILLA SATHWIKA	K. safhutker
13	086223016	PALLERLA SOUMYA	P. sounge
14	086223017	THEEGALA VIVEK CHAITHANYA	Tichaitarya
15	086223018	THUMMALA SAI RAM	T. gatvam
16	086223019	VAJJAKESHAVULA PRANAY KUMAR	v. pranay hunar

Department of Chemistry
VAAGDEVI DEGREE & P.G. COLLEGE
Harran Fonda

GROUPDISCUSSION

IntheAcademicyear2023-

24 Department of Chemistry conducted a Group Discussion on the topic Chromatography techniques

 $\label{eq:competition} Competition was organised on April 19^{th}, 2024 under the Supervision of S. Rajitha, Syed Yakoob.$

Group-A:-

SNO	HALLTICKET NUMBER	STUDENT NAME
1	086223354	SHAIK AYESHA
2	086223329	H.VENNELA
3	086223104	D.SOORAJ
4	086223964	Y.VASAVI
5	086223960	S.ROJASRI
6	086223016	P.SOUMYA

Department of Chemistry
VAAGDEVI DEGREE & P.G. COLLEGE
Haran 25-348





GROUP-B:-

SNO	HALLTICKET NUMBER	STUDENT NAME
1	086223604	G.SATHWIKA
2	086223202	B.SAHITHI
3	086223904	K.KIRAN KUMAR
4	086223158	G.ANKITHA SRI
5	086223160	K.RASHMIKA
6	086224015	M.ANUSHA

RESULT:-

Group-

Haranionia

Awas declared as with the winner of the competition with active participation.











QUIZ COMPETETION



On the occasion of "NATIONAL SCIENCE" department of physics & electronics conducted a quiz competition for the students on Feb28,2024.

EVENT: Group discussion

TOPIC: modern physics

CLASS: MPCSa III semester

GROUPA	GROUPB	GROUPC	GROUPD
B.madhushalini	N.nivedhitha	B.kiran	P.Manideep
(086244108)	(08624222)	(086244115)	(086244155)
K.laxmi	V.deepika	D.Ramu	cH.Rahul
(086244140)	(086244239)	(086244123	(086244182)
v.srija	A.akshaya	k.varun	E.Harish
(086244169)	(086244243)	(086244138	(086244189)

RESULT:

WINNER: GROUP 'C'

RUNNER: GROUP 'B'



On the occasion of "NATIONAL YOUTH DAY" department of physics & electronics conducted a quiz competetion on 'standards of physics' for the students on jan12,2024

GROUPA	GROUPB	GROUPC	GROUPD
A Rakesh	B.vamshi	E.kavya	g.bavana
(086224308)	(086422322)	(086224376)	(086224392)
K.laxmi	J .AKHILA	J.GANESH	M.KOTESH
(086224404)	(086224405)	(086224406)	(086224449)
M.Sindhuja	p.navya	p.soumya	r.sriya
(086224472)	(086224507)	(086224527)	086224533

EVENT: Group discussion

TOPIC: DEVOLOPMENT OF SCIENCE

CLASS: MPCSa v semester

RESULT:

WINNER; Group "A"

RUNNER; Group "D"

VDPGC WANKONOT THE



VAAGDEVI DEGREE AND PG COLLEGE

An autonomous College affiliated to Kakatiya University

Accredited with 'A' grade by NAAC

ADVANCED LEARNERS

As per the achievement of the student considering their punctuality regularly and levels of grouping the concepts the following students are considered as advanced learners they have divided into two groups

SNO	HALL TICKET NUMBER	NAME OF THE STUDENT
1.	08625-3608	T.Akhila
2.	08625-3614	P. Ravalika
3.	08625-3616	Almas
4.	08625-3619	T.Rajasri
5.	08625-3620	J.Nandhinij
6.	08625-3625	B.sindhuja
7.	08625-3626	B.Aparna
8.	08625-3629	Salma sara

9.	08625-3640	Hari priya
10.	08625-3647	Riyaz
11.	08625-3646	N.Niikitha
12.	08625-3610	S.Rahul
13.	08625-3633	P.Shivathmika
14.	08625-3648	K.Vishnuvardhan
15.	08625-3602	Kavya anjali
16.	08625-3637	K.Keerthana
17.	08625-3622	J.Sushma
18.	08625-3601	M.Varshitha
19.	08625-3612	A.Sahithi
20.	08625-3624	N.Manikanta



C. Padmavan

HEAD

Department of Zoology

VAAGDEVI DEGREE & F.G. COLLEGE

Henemkonda

Quiz

Team A

1.Almas

2 J.Nikitha

Name of the activity: Invertibrates

3.T.Akhila
4.N. Nikitha
Team B
1.B.Aparna
2.S.Rahul
3.P.Shivathmika
4.K. Keerthana
Team c
1.A.Sahithi
2.Riyaz
3.Hari priya
4.P.Ravikiran
Total points:20

Team A won the quiz competition by securing 18 points

Name of the faculty Dr P.Suresh

p.suresh

As per the activeness of the students considering their punctuality, discipline, regularity and levels of grouping the concepts the following students are considered as advanced learners

Project title: Identification of different types of mosquitoes

SNO	NAME OF THE	
	STUDENT	
1.	B.sindhuja	
2.	Krishnaveni	
3.	N.Sahithi	
4.	B.Lavanya	
5.	Almas	
6.	N.Nikitha	
7.	k.keerthana	
8.	M.Varshitha	
9.	A.Sahithi	

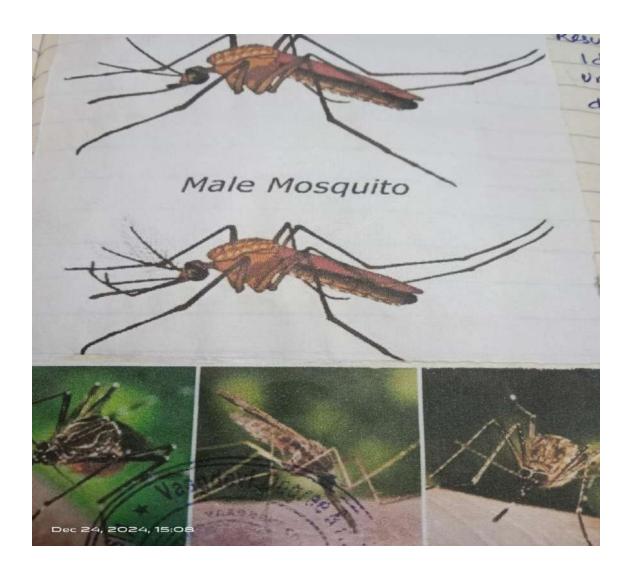
Result: Students were able to understand and identify mosquitoes in Warangal urban and rural areas .They are differentiated as Aedes, Anopheles and culex mosquitoes

Aedes Egypti: Dark brown with two white stripes in the shape of lyre on its back.

Culex mosquito: Light brown with light coloured band around its proboscis.

Anopheles mosquito: Light brown with dashed black marks on wings typically rests with abdomen anophelous contributes 44% culex 39% aedes 30% in

ruraland urban areas



c. Padmavah

VAAGDEVI DEGREE & K.G. COLLEGE **
Hanamkonda

NSS ACTIVITIES 2023-2024



NSS VOLUNTEERS PARTICPATED IN TELANGANA DASHABI UTSAVALU AT KAKATIYA UNIVERSITY ON JUNE 15 2023



SWATCH BHARATH PROGRAM AT KAKATIYA UNIVERSITY ON AUGUST 12 -2023



SWATCHTA HI SEVA AT KAKATIYA UNIVERSITY ON SEPTEMBER 03-2023



CELEBRATION OF BATHUKAMMA FESTIVAL ON 18 OCTOBER 2023



ORGANISED KITES FESTIVAL ON 10 JANUARY 2024 ON THE OCCATION OF SANKRANTHI FESTIVAL



CELEBRATIONS OF VIVEKANADA JAYANTHI ON 12-012024



Y.KEERTHANA PARTICIPATED NATIONAL INTEGRATION CAMP AT MLR INSTITUTE OF TECHNOLOGY HYDERABAD ON 14-01-2024 TO 20-01-2024



ORGANISED DISTRICT LEVEL NSS PROGRAM OFFICERS MEETING ON 29-01-2024



VOLUNTEERS PARTICIPATED MEDARM MEGA CAMP 7 DAYS FROM 19-02-2024 TO 25-02-2024



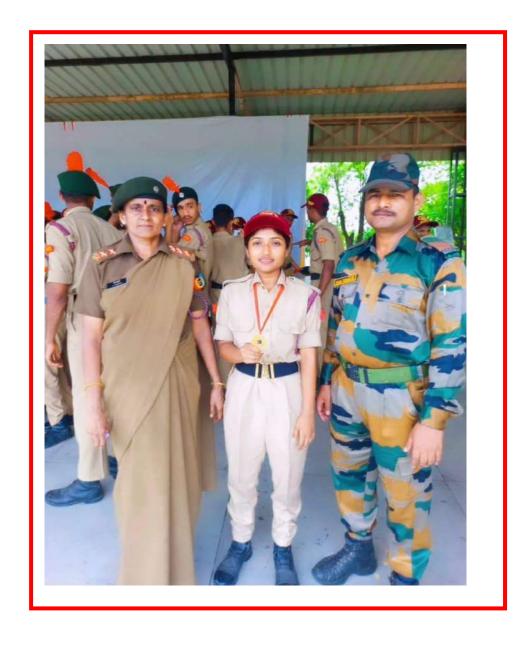
VOLUNTEER J.MAHESH B.COM CA PARTICIPATED IN NATIONAL INTEGRATION CAMP AT BANGLOOR UNIVERSITY FROM 20-03-2024 TO 29-03-2024



ORGANISED ONE DAY RED RIBBION CLUB PEER LEADERS CONVENTION ON 22-03-2024



ORGANISED BLOOD DONATION CAMP ON 28-03-2024



T.SAINIKITHA SELECTED FOR EBSB-I TO BE HELD BARVHITKARI VIDYA MANDIR MALERKOTLA PUNJUCB

WEF 10 TO 21 JUN 2023



SUNITHA ROY RANK-CPL 2023 BEST CAMP SENIOR AWARD IN CATC-VI CAMP ${f 1}^{ST}$ SEP TO ${f 10}^{TH}$ SEP 2023



G.RAJITHA BEST CAMP SENIOR AWARD IN CATC-VI CAMP ${f 1}^{ST}$ SEP TO ${f 10}^{TH}$ SEP 2023



TUG OF WAR 1ST PLACE IN CATC VI CAMP

1ST SEP TO 10TH SEP-2023



ARMY ATTCHMENT CAMP HELD AT MAHIDIPATNAM, SECENDRABAD

P.AJAY KUMAR (SUO) , S.ARUNKUMAR(CQMS), AKHIL, B.MANIDEEP,G.ARAVIND, M.CHANDU, D.NITHIN, S.RAJESH, P.NIHTIN , P.JYOTHI PARAKASH



(JUO) B.AKHILA, (SGT) MD BASHEER (CPL) T.ARAVIND .,

P BHARGAVI

INTER GROUP COMPITATION (IGC) OVER ALL 1ST PLACE

IN THE YEAR -2023



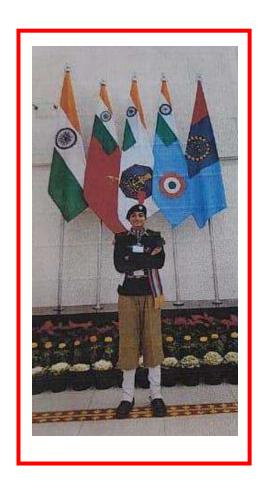
(JUO) GAJI PRASHANTH KUMAR. J.HARIKA.K.SAI GANESH
PARTICIPATED IN SNIC CAMP, HELD AT JAISALMER[RAJASTHAN]
FROM 28 OCT TO 08 NOV 2023



K.SAI GANESH PARTICIPATED IN SNIC AND ACHIEVED GOLD MEDAL IN KHOKHO GAME-2023



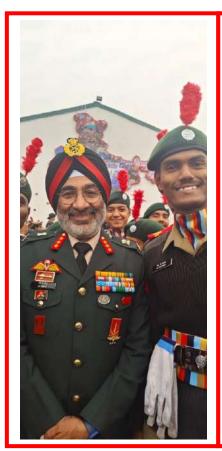
(SUO) B.AKHILA.(JUO) MD. BASHEER , (JUO) T.ARAVING
PARTICIPATED IN RDC. HEAD AT NEW DELHI
FROM 28 DEC 2023 TO 28 JAN 2024



(SUO) B.AKHILA

PARTICIPATED IN RDC [KARTVYA PATH]

HELD AT NEW DELHI-2024





(JUO) MD.BASHEER PARTICIPATED IN P.M RALLY [SOUTH ZONE], HELD AT NEW DELHI-2024



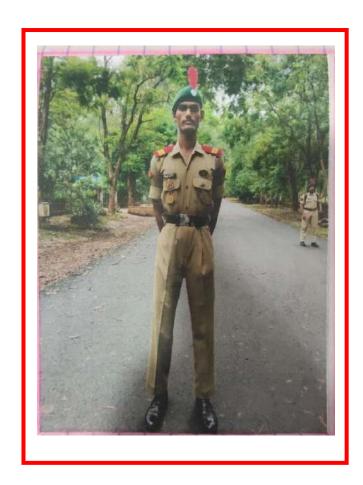
(JUO) T.ARAVIND
PARTICIPATED IN P.M RALLY HELD AT
NEW DELHI-2024



PARTICIPATED IN [EBSB-1] CAMP, AT MEDCHAL, HYDERABAD FROM 14-MAY-2024 TO 25-MAY-2024



RDC CADET SUO BANOTH AKHILA FROM 10(T) BN NCC WARANGAL
GROUP RECEIVED DG COMMENDATION FROM
DG Lt GEN GURBIRPAL SINGH AND HEAD OF AP & TELANAGNA DTE
[DDG] AIR COMMODORE VM REDDY SIR



RDC CADET SUO MD.BASHEER SELECTED FOR ALC [ADVANCE LEADERSHIP CAMP] FROM 02-07-2024 TO 13-07-2024

WHICH IS HELD AT ODISHA NIT ROUKELA



VAAGDEVI DEGREE AND PG COLLEGE



AWARDS AND ACHIEVEMENTS REGISTER – 2023-2024 8(T) GBn NCC, Warangal

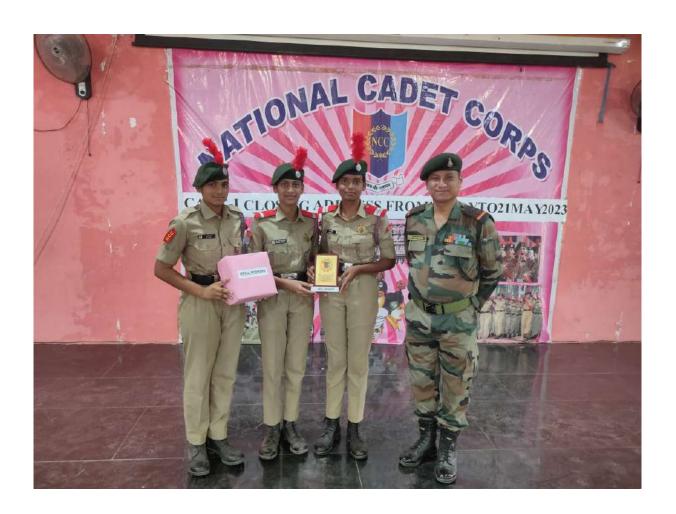
1) The following cadets received medals in Volleyball in CATC-I

Camp held at Mamnoor

- 1) SUO M.Pragathi of MStDS III YEAR
- 2) Cadet A. Harini of BCom.CA III YEAR
- 3) Cadet B.Akshitha MStCS III YEAR
- 4) Cadet T.Trisha MStCS III YEAR
- 5) CadetCh. Kiranmai MStCS IIYEAR
- 6) A.Poojitha of BBAIIYEAR



- 2) The following cadets received Memento inbest d drill in CATC-I Camp held at Mamnoor .
- 1) SUO M.Pragathi of MStDS III YEAR
- 2) JUO Ch. Swathanthra MStcS III YEAR
- 3) Cadet B.Akshitha III YEAR



3) Cadet Thehaniyath B.Com BA received medal in best poster making in CATC-I Camp held at Mamnoor .



- 4) The following cadets received Memento inbest d drill in CATC-I Camp held at Mamnoor .
- 1) SUO M. Pragathi of MStDS III YEAR
- 2) JUO Ch. Swathanthra MStcS III YEAR
- 3) Cadet B.Akshitha III YEAR

4) Cadet T.Trisha MStCS III YEAR

5) Cadet J.Supraja MStCS III YEAR



5) JUO G. Harshitha BBA-II year selected for a prestigious camp i.e.Republic day camp held at New Delhi.





6) JUO G. Harshitha BBA-II year selected as best camp senior award in CATC-I camp held at Mamnoor





VAAGDEVI DEGREE & PG COLLEGE KISHANPURA, HNK SPORTS & GAMES 2023-24



**ACHIEVMENTS *

S.NO	Name	Group	Event	All India/ South Zone	Mobile no.
				SOUTH WEST	
1	N.AJAY KUMAR	M.BA I ST YEAR	KABADDI	ZONE	91338468694
				SOUTH WEST	
2	MD.MOINUDDION	M.BA I ST YEAR	BASKET BALL	ZONE	8309302402
		B.COM TAX II		SOUTH WEST	
3	K.AKHIL	YEAR	WRESTLING	ZONE	9502463201
				SOUTH WEST	
4	S.DILEEP	BBA II YEAR	WRESTLING	ZONE	9502463201
5	NIHAL SINGH	BCA I YEAR	BEST PHYSIQUE	ALL INDIA	7671866325
				SOUTH WEST	
6	P.SHIRISHA	MBA IYEAR	BASKET BALL	ZONE	9014327703
		B.COM CA I		SOUTH WEST	
7	B.RAHUL	YEAR	HOCKEY	ZONE	8522867335
8	E.KARTHIK	MPCS I YEAR	YOGA	NATIONAL	7702176568
		B.COM (TAX) II		SOUTH WEST	
9	T.SHARATH	YEAR	JUDO	ZONE	8008255101
				SOUTH WEST	
10	N.JAHNVAI	MPCS I YEAR	JUDO	ZONE	6304106702
				SOUTH WEST	
11	G.MOHAN DAS	BBA II YEAR	BADMINTON	ZONE	9912312173
				SOUTH WEST	
12	CH.PRATHYUSHA	BTBC III YEAR	POWER LIFTING	ZONE	8143760098
14	K.RISHI	BBA II YEAR	КНО-КНО	SOUTH ZONE	9390619631
15	M.VISHNUVARDHAR	BCA I YEAR	GYMNASTICS	AIIU	7386760231



VAAGDEVI DEGREE & PG COLLEGE

KISHANPURA, HNK SPORTS & GAMES 2023-24 **ACHIEVMENTS *







D.RAMA KRISHNA B.COM (CA) III YEAR SECURED GOLD MEDAL DISCUSS SILVER
 MEDAL IN SHOT PUR KAKATIYA UNIVERSITY (ICT) 2023-24



S.DILLEP B.B.A IV SEM SECURED SILVER MEDAL IN TELANGANA STATE LAVEL
 UNDER 20 WRESTLING CHAMPIONSHIP 2023-24



VAAGDEVI DEGREE & PG COLLEGE KISHANPURA, HNK SPORTS & GAMES 2023-24 **ACHIEVMENTS *



• K.AKHIL B.COM (TAX) QUALIFIED TO OLYMPIC





VAAGDEVI DEGREE & PG COLLEGE

KISHANPURA, HNK SPORTS & GAMES 2024-25

**ACHIEVMENTS *

S.NO	Name	Group	Event	All India/ South Zone	Mobile no.
1	G.MOHAN DAS	BBA	BADMINTION	WINNERS	9912312173
	G.MOTH II V D/16	DDIT	BADMINTION	WINNERS	7712312173
2	G.SAHRUDAY	MBA	Bribinii (1101)	WINELD	9849798957
3	O.AJAY	B.COM (CA)	BADMINTION	WINNERS	6281162257
4	M.VENU	MCA	BADMINTION	WINNERS	7993879769
5	G.SAI VARSHITH	MBA	BADMINTION	WINNERS	7569563554
6	MD MOINUDDIN	MBA-III	BASKET BALL	PARTICIPATION	8309302402
7	K.PAVANPAL	B.COM BA	BASKET BALL	PARTICIPATION	9154676657
8	MD.BASHEER	MPCS	BASKET BALL	PARTICIPATION	7330806091
9	K.CHOUHAN	MPCS	BASKET BALL	PARTICIPATION	7702376673
10	R.VENKATESH	MPCS	BASKET BALL	PARTICIPATION	9391562412
11	G.HARIPRASAD	MBA	BASKET BALL	PARTICIPATION	6309588332
12	V.SHIVA SAI	MPCS	TABLE TENNIS	PARTICIPATION	9390947323
14	N.ARUN	MPCS	CHESS	PARTICIPATION	9133192837
15	K.CHOUHAN	MPCS	CHESS	PARTICIPATION	7702376673
16	P.KEERTHANA	B.COM (CA)	BADMINTON	PARTICIPATION	
			BADMINTON	PARTICIPATION	
17	P.SHIVATMIKA	BZCS			
			BADMINTON	PARTICIPATION	
18	S.HARIPRIYA	MPCS			
			BADMINTON	PARTICIPATION	
19	B.SREEJA	MPCS			

			BADMINTON	PARTICIPATION	
20	CH.NIKHITHA	P COM (CA)			
1	P.APOORVA	B.COM (CA) MPCS II-YR	KABBADI	PARTICIPATION	9550760172
	TWH O OTT VIT		KABBADI		7000,001,2
2	M.ANJALI	FSZC II-YR		PARTICIPATION	7075084731
3	M.SAHITHYA	B.COM (CA) III YR	KABBADI	PARTICIPATION	8919335436
4	NIAHADI	ECZC HAD	KABBADI	DA DITICIDA TION	0200550455
4	N.LAHARI	FSZC-II YR	KABBADI	PARTICIPATION	9390558455
5	M.PRAVALIKA	MSTDS-II YR		PARTICIPATION	8341279564
6	L.MADHAVI	B.COM (CA)- I YR	KABBADI	PARTICIPATION	9346944206
7	P.KAVYA	MPCS	KABBADI	PARTICIPATION	6301895056
0	S.AKSHITHA	DDA(LO)	KABBADI	DA DTICIDATION	7075002120
8	S.AKSHII HA	BBA(LO) B.COM (CA)	KABBADI	PARTICIPATION	7075993139
9	R.RANI	I-YR	IN IDDI IDI	PARTICIPATION	8639039423
10	B.ANJALI	MPCS I YR	KABBADI	PARTICIPATION	6319080408
10	D.TI WILL	B.COM (BA)	KABBADI	Tricital Allion	0317000100
11	V.PRIYANKA	I YR		PARTICIPATION	8142790396
12	R.LAVANYA	B.COM (CA) I YR	KABBADI	PARTICIPATION	7330709800
14	AFSANA BEGUM	MPCS-A	VOLLEY BALL	PARTICIPATION	9948830258
			VOLLEY BALL		
15	G.AKHILA	BBA	VOLLEY BALL	PARTICIPATION	8333054513
16	B.SIRI BHAVANI	B.COM BA	VOLLET BALL	PARTICIPATION	7013166536
17	T.KAVYA	BCA-A	VOLLEY BALL	PARTICIPATION	7032386542
			VOLLEY BALL		
18	B.SHIVANI	BCA-A	VOLLEY DALL	PARTICIPATION	8142829937
19	B.AKHITHA	MBA	VOLLEY BALL	PARTICIPATION	9948788181
• 0		5 6 4 (5)	VOLLEY BALL	D. D	0015100110
20	V.CHANDHANA	BCA(B)	VOLLEY BALL	PARTICIPATION	9347498113
21	P.MAMATHA	MPCS(B)		PARTICIPATION	7893294168
22	T.KAVYA	BZC	VOLLEY BALL	PARTICIPATION	7386890251
23	M.NIRISHMA	BBA	VOLLEY BALL	PARTICIPATION	9515061945
			VOLLEY BALL		
24	K.DEEPIKA	FSBZ	КНО-КНО	PARTICIPATION	9652499242
30	R.SHIVANI			PARTICIPATION	7989532922
31	S.KRISHNARAGINI		КНО-КНО	PARTICIPATION	9912793321
32	N.AMULYA		КНО-КНО	PARTICIPATION	7702702141
33	K.PRIYANKA		КНО-КНО	PARTICIPATION	9390788911
34	O.MALLESHWARI		КНО-КНО	PARTICIPATION	8519892432
Jr		<u> </u>	<u> </u>		0017072702

			IZHO IZHO		1
35	J.ANJALI		КНО-КНО	PARTICIPATION	9515765268
36	M.KRUPA		КНО-КНО	PARTICIPATION	9010694305
37	N.NIKHITHA		КНО-КНО	PARTICIPATION	6305980671
38	J.SUSHMA		КНО-КНО	PARTICIPATION	9581273843
39	J.SANJANA		КНО-КНО	PARTICIPATION	7416822826
40	A.PURNA		КНО-КНО	PARTICIPATION	7330966778
41	K.BHARGAVI		КНО-КНО	PARTICIPATION	9110768389
42	G.HARSHINI		КНО-КНО	PARTICIPATION	8096090402
43	K.GANESH	BCA-II YR	BALL BADMINTION	PARTICIPATION	7032997947
44	K.SIDDARTHA	BCA-III YR	BALL BADMINTION BALL	PARTICIPATION	7842167507
45	D.SAI KIRAN	MBA IST YR	BALL BADMINTION BALL	PARTICIPATION	7075145013
46	S.AJAY	MBA IIST YR	BADMINTION BALL	PARTICIPATION	9347631778
47	V.MANOJ	BCA IIYR	BALL BALL	PARTICIPATION	7207068126
48	M.AKHIL	BCA IIYR	BALL BALL	PARTICIPATION	8106790938
49	V.SHIVA SAI	MPCS I YR	BADMINTION	PARTICIPATION	
50	P.SAI CHARAN	BZCS II YR	BALL BADMINTION BALL	PARTICIPATION	
51	T.ANIL	BCA	BADMINTION	PARTICIPATION	
52	P.ABHINAY	NDZC	BALL BADMINTION	PARTICIPATION	
53	M.VAMSHI	MPCS I-YR	SOFT BALL	PARTICIPATION	9014532295
54	K.NIRANJAN	NDZC III YR	SOFT BALL	PARTICIPATION	9515759081
55	P.SAI	MSTDS	HAND BALL	PARTICIPATION	9989843710
56	S.PRAVEEN	MBA	КНО-КНО	PARTICIPATION	7670892154
57	K.RISHI	BBA-3 YR	КНО-КНО	PARTICIPATION	9390619631
58	K.RAHUL	BBA-3 YR	КНО-КНО	PARTICIPATION	8106167635

		T			1
59	B.VENKATESH	BBA-1 YR	КНО-КНО	PARTICIPATION	8121787966
60	B.BHASKAR	BBA-3 YR	КНО-КНО	PARTICIPATION	7171914298
		B.COM	КНО-КНО	PARTICIPATION	
61	T.BHARATH	(CA)1 YR	KHO-KHO	PARTICIPATION	9392436660
62	K.NIKHIL	MSTCS-3 YR			7075079307
63	ABDUL RAHMAN	BCA – I YR	КНО-КНО	PARTICIPATION	8555981799
64	K.NIRANJAN	NDZC -3 YR	КНО-КНО	PARTICIPATION	9515759081
65	G.CHANAKYA	MPCS-1 YR	КНО-КНО	PARTICIPATION	6304508702
			КНО-КНО	PARTICIPATION	
66	D.SOMESHWAR	MPCS-1 YR	KHO-KHO	PARTICIPATION	8074620772
67	K.PRASHANTH	BBA-3 YR	KABADDI	PARTICIPATION	9701275174
68	N.AJAY KUMAR	MBA II YR			9133848694
69	G.PAVAN	MBA-II YR	KABADDI	PARTICIPATION	8367043803
70	R.SANJAY	MBA-II YR	KABADDI	PARTICIPATION	9701079512
71	G.DEVRAJ	MBA-II YR	KABADDI	PARTICIPATION	7993913960
			KABADDI	PARTICIPATION	
72	CH.VISHNU	MBA-I YR	KABADDI	PARTICIPATION	6301293417
73	D.SAI DINESH	BZCS-I YR	KABADDI	PARTICIPATION	9398708516
74	T.ANIL	BCA-II YR			6305393366
75	D.RAHUL	B.COM(CA)- II YR	KABADDI	PARTICIPATION	9603832066
76	J.SAI CHARAN	BBA -II YR	KABADDI	PARTICIPATION	9063159331
			KABADDI	PARTICIPATION	
77	MD.SOHAIL	BCA-I YR B.COM CA-I	KABADDI	PARTICIPATION	9154522922
78	B.SATHWIK	YR	KABADDI	PARTICIPATION	8309177235
79	A.SATHOSH	MPCS-I YR		FARTICIPATION	7670925471
84	G.HARI PRASAD	MBA-II YR	VOLLEY BALL	PARTICIPATION	9440529916
85	P.ARUN	MBA-II YR	VOLLEY BALL	PARTICIPATION	9440529916
	A.SAI	MStCs -III	VOLLEY BALL		
86	NARESNDER	YR	VOLLEY BALL	PARTICIPATION	9440529916
87	G.SUNNY	MPCS -III YR	VOLLEY BALL	PARTICIPATION	9440529916
88	M.KALYAN RAM	MECS-III YR		PARTICIPATION	9440529916
89	B.RITHIK	BBA (RO)-III YR	VOLLEY BALL	PARTICIPATION	9440529916
90	N.SUNNY	BBA III YR	VOLLEY BALL	PARTICIPATION	9440529916
91	K.SRIDHAR	MPCS -III YR	VOLLEY BALL	PARTICIPATION	9440529916
		50 111 110			

		B.COM III	VOLLEY BALL		
92	G.VARDHAN	YR	VOLLET BALL	PARTICIPATION	9440529916
93	A.PAVAN PATHI	BCA-III YR	VOLLEY BALL	PARTICIPATION	9440529916
94	M.UDAY KIRAN	AGRI BC III- YR	VOLLEY BALL	PARTICIPATION	9440529916
0.5	J.PURNA	B.COM	VOLLEY BALL	DA DTICIDATION	0440520016
95	CHENDER T.MOHAN	(TAX)-III YR B.COM (BA)	TAEKWONDO	PARTICIPATION	9440529916
96	KRISHNA	III YR		PARTICIPATION	9392782849
97	T.CHANDU	B.COM (BA) I YR	TAEKWONDO	PARTICIPATION	8374792063
98	A.GANESH	BBA II YR	TAEKWONDO	PARTICIPATION	9640166049
99	P.SHIVAJI	BBA-I YR	BOXING	PARTICIPATION	9392782849
100	S.DILEEP	BBA-III YR	WRESTLING	PARTICIPATION	9502463201
		B.COM (CA)	WRESTLING	PARTICIPATION	
101	J.MAHESH	III YR	WRESTLING	PARTICIPATION	9014532618
102	CH.VISHNU	MBA I YR	WRESTLING	PARTICIPATION	6301293417
103	D.RAHUL	B.COM (CA) II YR	WRESTLING	PARTICIPATION	9603832066
104	D.SAI DINESH	BZCS III YR	WRESTLING	PARTICIPATION	9398708516
105	K.AKHIL	B.COM-TAX- III YR	WRESTLING	PARTICIPATION	9502463201
106	B.VARUN	MBA-II YR	CRICKET	WINNERS	7680863731
107	MD.MOINUDDIN	MBA-II YR	CRICKET	WINNERS	8309302402
108	SK.SAMEER	MBA-II YR	CRICKET	WINNERS	6302458056
109	B.VISHAL	MBA-I YR	CRICKET	WINNERS	9704004934
110	B.AKHIL	MBA-I YR	CRICKET	WINNERS	9182259847
111	B.AKHIL	MBA-I YR	CRICKET	WINNERS	6302703129
112	G.HARI PRASAD	MBA-I YR	CRICKET	WINNERS	6309588332
113	M.RAJESH	MCA-II YR	CRICKET	WINNERS	8106113196
114	P.JACOB	BBA-II YR	CRICKET	WINNERS	9063512711
115	M.SHIVARAM	BBA-I YR	CRICKET	WINNERS	9392794006
116	V.VAISHANAV	B.SC-II YR	CRICKET	WINNERS	9843351521
117	B.BHASKAR	B.SC -III YR	CRICKET	WINNERS	7671914298
118	AGA SARDAR ALI	BCOM-I YR	CRICKET	WINNERS	8247440043
119	K.NIRANJAN	B.SC-II YR	CRICKET	WINNERS	9515759081
120	K.GANESH	BCA-II YR	CRICKET	WINNERS	9392961648





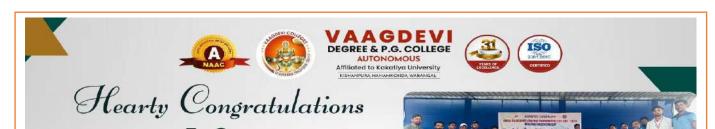
		CRICKET	WINNERS	
121	MD.SUFIYAN			9010002889

VAAGDEVI DEGREE & PG COLLEGE

KISHANPURA, HNK SPORTS & GAMES 2024-25

**ACHIEVMENTS *

S.NO	Name	Group	Event	KU INTER COLLEGIATE	Mobile no.
1			CRICKET	WINNERS	
	B.VARUN	MBA-II YR			7680863731
			CRICKET	WINNERS	
2	MD.MOINUDDIN	MBA-II YR			8309302402
3	SK.SAMEER	MBA-II YR	CRICKET	WINNERS	6302458056
4	B.VISHAL	MBA-I YR	CRICKET	WINNERS	9704004934
			CRICKET	WINNERS	
5	B.AKHIL	MBA-I YR			9182259847
6	B.AKHIL	MBA-I YR	CRICKET	WINNERS	6302703129
7	G.HARI PRASAD	MBA-I YR	CRICKET	WINNERS	6309588332
8	M.RAJESH	MCA-II YR	CRICKET	WINNERS	8106113196
9	P.JACOB	BBA-II YR	CRICKET	WINNERS	9063512711
10	M.SHIVARAM	BBA-I YR	CRICKET	WINNERS	9392794006
11	V.VAISHANAV	B.SC-II YR	CRICKET	WINNERS	9843351521
12	B.BHASKAR	B.SC -III YR	CRICKET	WINNERS	7671914298
13	AGA SARDAR ALI	BCOM-I YR	CRICKET	WINNERS	8247440043
14	K.NIRANJAN	B.SC-II YR	CRICKET	WINNERS	9515759081
15	K.GANESH	BCA-II YR	CRICKET	WINNERS	9392961648
16	MD.SUFIYAN		CRICKET	WINNERS	9010002889







Winners of K.U Inter – Collegiate Warangal Zone Cricket Tournament For Men 2024-2025 VAAGDEVI DEGREE & PG COLLEGE

KISHANPURA, HNK SPORTS & GAMES

2024-25

S.NO	Name	Group	Event	KU INTER COLLEGIATE	Mobile no.
			BALL		
			BADMINTION		
1	K.GANESH	BCA-II YR		WINNERS	7032997947
			BALL	WINNERS	
			BADMINTION		
2	K.SIDDARTHA	BCA-III YR			7842167507
			BALL	WINNERS	
2	D CALVIDAN	MD A ICT MD	BADMINTION		7075145012
3	D.SAI KIRAN	MBA IST YR	DALL	WINDEDG	7075145013
			BALL	WINNERS	
4	S.AJAY	MBA IIST YR	BADMINTION		9347631778
	S.AJA I	MIDA IIST TK	BALL	WINNERS	934/031//6
			BADMINTION	WINNERS	
5	V.MANOJ	BCA IIYR	BADMINTION		7207068126
	V.1VII II VOS	Derritk	BALL	WINNERS	7207000120
			BADMINTION	, , ii (i (21 6	
6	M.AKHIL	BCA IIYR	Bribinition		8106790938
			BALL	WINNERS	
			BADMINTION		
7	V.SHIVA SAI	MPCS I YR			9390947323
			BALL	WINNERS	
			BADMINTION		
8	P.SAI CHARAN	BZCS II YR			7093382211
			BALL	WINNERS	
			BADMINTION		
9	T.ANIL	BCA			9866992531
			BALL	WINNERS	
10	D A DIIIDIA 37	NDZC	BADMINTION		7002202211
10	P.ABHINAY	NDZC			7093382211





Winners of K.U Inter – Collegiate Badminton Tournament For Men 2024-2025 VAAGDEVI DEGREE & PG COLLEGE

KISHANPURA, HNK SPORTS & GAMES 2024-25

S.NO	Name	Group	Event	KU INTER COLLEGIATE	Mobile no.
1					
	G.MOHAN DAS	BBA	BADMINTION	WINNERS	9912312173
			BADMINTION	WINNERS	
2	G.SAHRUDAY	MBA			9849798957
			BADMINTION	WINNERS	
3	O.AJAY	B.COM (CA)			6281162257
			BADMINTION	WINNERS	
4	M.VENU	MCA			7993879769
	G.SAI		BADMINTION	WINNERS	
5	VARSHITH	MBA			7569563554



Winners of K.U Inter – Collegiate Ball Badminton Tournament For Men 2024-2025