



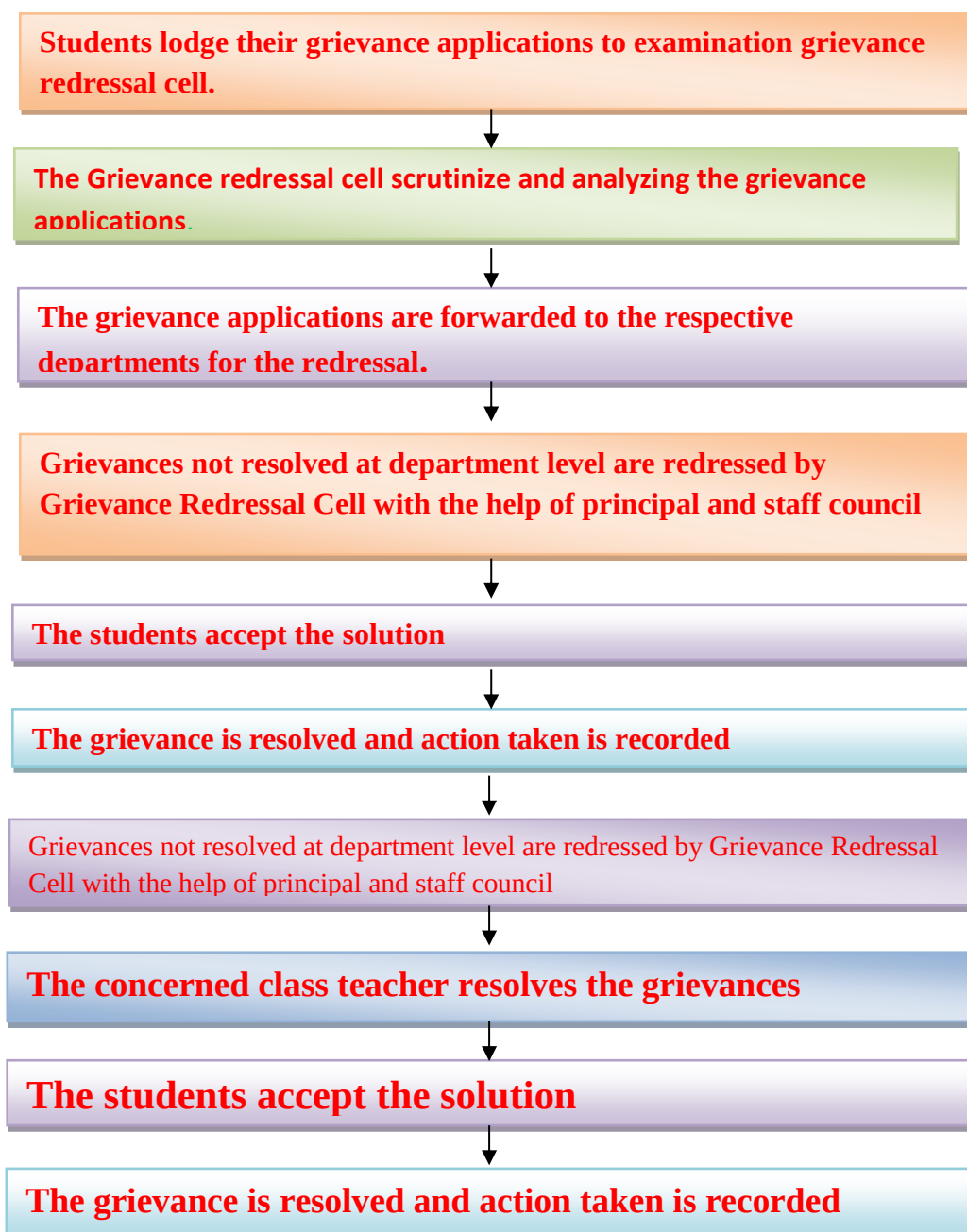
TIRUMALA TIRUPATI DEVASTHANAMS
S.G.S. ARTS COLLEGE

Tiruchanur Road, TIRUPATI-517501

Prof. N. VENUGOPAL REDDY, M.Sc., M.Phil., Ph.D
PRINCIPAL (FAC)

2.5.2: Mechanism to deal with internal examination related grievances is transparent, time- bound and efficient

Examination Grievance Redressal Mechanism for Internal Assessment



Students not willing to submit their grievance applications personally can drop them in writing at this complaint box.



"OM NAMO VENKATESAYA"

TIRUMALA TIRUPATI DEVASTHANAMS, TIRUPATI
S.G.S ARTS COLLEGE, TIRUCHANOUR ROAD, TIRUPATI
DEPARTMENT OF CHEMISTRY

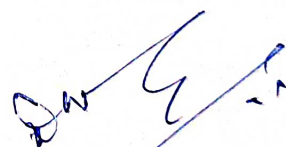
Sri D.PARAMESWARA
M.Sc., M.Phil.,(Ph.D)
HOD OF CHEMISTRY

Phone No: 9490728655
Mail.ID: parameswara1964@gmail.com

Notice

Date: 26-08-2019

The students of I, III & V semesters of MPC, BBC, MZC & CBZ are hereby informed to go through the marks they have secured in the first internal examination from **05-08-2019 to 16-08-2019**. Their doubts or corrections etc if any may be brought to the notice of the respective class teacher/HOD of the department before 29-08-2019.


HOD
DEPARTMENT OF CHEMISTRY
S. G. S. ARTS COLLEGE
TIRUPATHI
Department of chemistry

“OM NAMO VENKATESAYA”
TIRUMALA TIRUPATI DEVASTHANAMS, TIRUPATI
S.G.S ARTS COLLEGE, TIRUCHANOUR ROAD, TIRUPATI
DEPARTMENT OF CHEMISTRY

Sri D.PARAMESWARA
M.Sc., M.Phil.,(Ph.D)
HOD OF CHEMISTRY

Phone No: 9490728655
Mail.ID: parameswara1964@gmail.com

SEMESTER-I :: MPC (EM&TM)			
S.No	Hall Ticket Number	Name of the student	Internal-I (out of 50M)
1	320008026	A.Raghu kumar	48
2	320008027	A.VenkataArjun	36
3	320008028	A.Chandu prakash	36
4	320008029	B.Nagaraju naik	45
5	320008030	B.Sharmila	45
6	320008031	B.sri vijay	50
7	320008032	B.Simhadri	50
8	320008033	B.Varaprasad	50
9	320008034	B.Shasi kumar	50
10	320008035	C.Varaprasad	40
11	320008036	C.Uday kumar	43
12	320008037	D.Karthik	35
13	320008038	E.Chandana priya	45
14	320008039	K.Vishnu prasad	40
15	320008040	M.Ramprasad	50
16	320008041	M.Raja	45
17	320008042	M.Tharunkumar	40
18	320008043	M.SandeepReddy	30
19	320008044	N.KanthaReddy	AB
20	320008045	P.Bala subramanyam	35
21	320008046	PBalasundaram	40
22	320008047	R.Shasidhar	40
23	320008048	T.Vishnuvardhan	40
24	320008049	Y.Venkatesh	47
25	320008050	Y.Gayathri	40
CBZ (TM)			
S.No	H.T.No	Name of the student	Internal-I (out of 50M)
1	320008001	AM SAMEERA	50
2	320008002	BUKKE DINESH NAIK	50
3	320008003	C.LAKSHMI NARAYANA	45
4	320008004	CHALAMPATI HARINAD	40
5	320008005	CHITTOOR HEMANTH KUMAR	50

6	320008006	CHOWDAM CHANDRA SEKHAR	50
7	320008007	DANDOLU SURYA	40
8	320008008	DEVULA BALA CHANDRA	45
9	320008009	DODDI MUNILATHA	50
10	320008010	EDAGGOTTI SREE KANTH	50
11	320008011	GOWRAYYU VEERANJINEYULU	AB
12	320008012	GUDISE RAJASEKHAR	50
13	320008013	K SASI KUMAR	50
14	320008014	KAMPA K USHA	40
15	320008015	KEESARAM SWATHI	45
16	320008016	KORADA SIDANANDA SARASWATHI	50
17	320008017	KUDUMULA MADHU SUDHAN	50
18	320008018	M NAVEEN NAIK	40
19	320008019	MARI MANI DEEPA	50
20	320008020	MARIGALA HARESSH	45
21	320008021	MOOLINTI MUNEMMA	40
22	320008022	NAMPALLI LOKESH	AB
23	320008023	PACHIGALLA SANDEEP KUMAR	35
24	320008024	PALLI POINA MUNEDRA	30
25	320008025	PASALA SANTHOSH KUMAR	45

MZC (EM)

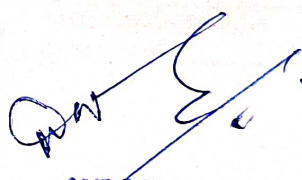
S.No	H.T.No	Name of the student	Internal-I
			(out of 50M)
1	320008212	A.Giriramesh	35
2	320008213	A.Girishma	50
3	320008214	A,Kartheek	40
4	320008215	B.Charanteja	45
5	320008216	B.Damodharnaik	50
6	320008217	B.Nadiya	50
7	320008218	B.Gurunadh	40
8	320008219	B.Lakshmiprasad	35
9	320008220	C.Ram krishna	AB
10	320008221	C.Sureshbabu	45
11	320008222	C.Venkataramana	45
12	320008223	C.Chandu	45
13	320008224	G.Jahnavi	50
14	320008225	G.Raju	50
15	320008226	G.Reddissekhar naud	50
16	320008227	H.Naveen	50
17	320008228	I.Kotiah	30
18	320008229	J.Padma	35
19	320008230	K.Sohit kumar	30
20	320008231	K.Hari krishna	45
21	320008232	K.Ganesh	45
22	320008233	K.Mahesh	45
23	320008234	K.Vinodh kumar	45
24	320008235	M.M.Pandian	30
25	320008236	M.Padmavathi	50

26	320008237	m.Bramhareddy	40
27	320008238	M.Keerthana	40
28	320008239	M.Kumar	35
29	320008240	N.Usman	30
30	320008241	N.Mayuri	48
31	320008242	P.Lokesh	40
32	320008243	P.Vaishnavi	50
33	320008244	P.Dinesh	45
34	320008245	P.Reddiprakash	50
35	320008246	R.Pavithra	50
36	320008247	R.Geethika	50
37	320008248	S.Harinath	40
38	320008249	S.Reena	35
39	320008250	S.Rajesh	45
40	320008251	S.Rakesh	40
41	320008252	S,Nrendra reddy	35
42	320008253	T,Kiran kumar	50
43	320008254	V.Sai chaitanya	45
44	320008255	V.Gopalakrishna	40

BBC (EM)

S.No	H.T.No	Name of the student	Internal-I
			(out of 50M)
1	320008256	A.CHANDINI	30
2	320008257	A.POOJITHA	40
3	320008258	D. GOUTHAM KRISHNA	50
4	320008259	B.VENKATASAI KUMAR NAIK	45
5	320008260	V.MANJUNADH NAIK	35
6	320008261	D.GOVARDHAN	40
7	320008262	V.JANSI LAKSHMI	50
8	320008263	C.BABU	50
9	320008264	C.KARUNAKAR	45
10	320008265	C.RAMAKANTH	45
11	320008266	C..PRIYA	40
12	320008267	c.devi	45
13	320008268	e.vasu goud	50
14	320008269	g.madhavi	40
15	320008270	g.soumya	45
16	320008271	j.bhavani	50
17	320008272	K.RAJU	40
18	320008273	K.VENKATESH	45
19	320008274	K.RAJA	45
20	320008275	K.VENKATASURESH	45
21	320008276	K.SIUNETHA	45
22	320008277	K.RANGASWAMI	40
23	320008278	K.NARASIMHUDU	50
24	320008279	M.BALAJI	45
25	320008280	M.DEVENDRA	35
26	320008281	M.ANIL	50

24	320008279	M.BALAJI	45
25	320008280	M.DEVENDRA	35
26	320008281	M.ANIL	50
27	320008282	M.NARAYANA	45
28	320008283	M.ANUDEEP GUPTHA	40
29	320008284	M,MUKESH	45
30	320008285	M.PRAKASH NAIK	45
31	320008286	M.SIVA KUMAR	35
32	320008287	M.BHANU SANKAR NAIDU	45
33	320008288	N.POONIMA	40
34	320008289	P.SUNIL	45
35	320008290	P.GOVARDHAN	48
36	320008291	P.PRADDEEP KUMAR	45
37	320008292	P.PARVATHI	35
38	320008293	T.UMAMAHESWAR	50
39	320008294	S.MUNI SINDUJA	AB
40	320008295	S.PRAVALLIKA	35
41	320008296	S.KIRAN	45
42	320008297	S.RATHWICK PAUL JENNY	35
43	320008298	T.SREELATHA	45
44	320008299	T.MAHESH REDDY	40
45	320008300	U VENKATESH	40
46	320008301	V.RAMANJANEYULU	45
47	320008302	V.NETHISH KUMAR	40


HEAD
DEPARTMENT OF CHEMISTRY
S. G. S. ARTS COLLEGE
TIRUPATHI

Grievances related to internal examinations.

The examination Grievances Redressal Cell has received the letters from the students regarding their grievances pertaining to internal assessment for the academic year 2019-20.

I SEM

28-8-2019,
Tirupati.

From,
S. Muni sindhuja
1st BSc (BSc)
1st Semester
HT NO: 320008094
SGS Arts College.
Tirupati.

TO,
The examination grievance
Redressal cell,
SGS Arts College,
Tirupati.

Respected Sir,

I am S. Muni sindhuja, I sem BSc
in SGS arts college Tirupati, writing this letter here
Requesting you that I'm absent on the day when
Chemistry internal exam is conducted because of
health issues. So kindly permit me to reappear
for the exam.

Thank you,

Yours faithfully,
S. Muni sindhuja -
320008094

from

Tirupati

26-08-2019

N. Mayuri,

Ist Bsc MZC (E/M)

H.T NO. 320008041,

SGS Arts college,

Tirupati

To

The Examination Grievances

Redressal cell.

SGS Arts College,

Tirupati.

Respected Sir.

I am N. Mayuri studying I sem
MZC (E/M) in SGS Arts college, Requesting
to Reassuement my ~~microbiology~~^{Chemistry} paper I
for which I am expecting more marks
than I got

Thanking you.

Yours faith fully

N. Mayuri

H.T. NO:- 320008041

Tirupathi,
Date :- 28-08-2019

From
A. Raghv kumar
1st B.Sc MPC (E/M)
1st Semester
HT. NO - 32000 8026
GGS Arts College
Tirupathi

To
The examination grivence
Redressal cell
GGS Arts College
Tirupathi.

Respected Sir,
I am A. Raghv kumar 1st BSC. MPC
1st Sem in GGS Arts College Tirupathi. I request
you to refer the Chemistry paper - I for getting
more marks then. I got in the paper.

Thanking you.

Yours faithfully
A. Raghv kumar
Roll No. :- 32000 8026

Tirupathi,
26-08-2019.

From
A. Veeranjanyulu,
III CBZ,
H.T. no:- 320008011,
SGS ARTS college,
Tirupathi.

TO
The examination grievances,
Redreved cell,
SGS ARTS college,
Tirupathi.

Respected sir,

Due to ill health, I have not
attended the chemistry/internal examination kindly
give me permission to write the examination.

Thanking you sir,

Yours faithfully,
A. Veeranjanyulu,
H.T. no:- 320008011.

Tirupati,
Date :- 27-08-2019

From,
Uday Kumar,
Ist Bsc (MPC) E/M,
Ist semester,
H.T NO:- 320008036,
S.G.S Arts college,
Tirupati.

To.
The Examination Grievances,
Redressal college,
S.G.S Arts college,
Tirupati.

Respected sir,

I am Uday Kumar Ist Bsc (MPC)
(E/M) Ist semester in S.G.S Arts college Tirupati, &
Requested you to Reassess the Chemistry paper - I
for Getting More Marks than, I got in the paper
Thanking you.

Yours faithfully
Uday Kumar

H.T. NO:- 320008036

Tirupati,

27-08-2019

from,

N. Lokesh

Ist SEM CB2 (TM)

Rst Semester

HT. NO. 320008022

S.G. & Arts college.

Tirupati.

To,

The examination griveneer

Redressal cell,

S.G. & Arts college,

Tirupati,

Respected sir,

I am N. Lokesh Bsc CB2 (TM) Rst semester

In S.G. & Arts college Tirupati. writting this letter here requesting
you that I am absent on the day when chemistry Internal
Exam is conducted, because of health-Issue so, kindly
permit me to reappear for the exam. thank you

yours faithfully

N. Lokesh

HT. NO - 320008022.

27/8/2019,
Tirupathi.

From,

K. Hari Krishna,
1st Sem, MZC (E.M),
HT NO:- 320008031,
SGS Arts college,
Tirupathi.

To,

The Examination grievances
Redressal cell,
SGS Arts college,
Tirupathi.

Respected Sir,

I K. Hari Krishna Studying 1st sem MZC
(E.M) SGS Arts college is requesting to you to re-examine
the chemistry paper -1 for getting more marks than
I got in the paper.

Thanking you Sir,

Yours faithfully,
K. Hari Krishna,
1st MZC (E.M),
HT NO:- 320008031,
SGS Arts college,
Tirupathi.

27/08/2019,
Tirupathi.

From:-

Y. Venkatesh

I Sem MPC (EM)

HT No:- 320008049

SGS Arts College
Tirupathi

To :-

The examination Grievances
Redressal Cell,

SGS Arts College
Tirupathi

Respected Sir,

I Y. Venkatesh studying in I Sem MPC (EM)

In SGS Arts college, I am requesting you to re-total my
chemistry paper-I for which I'm expecting more
marks than I got.

Thanking you Sir,

Yours faithfully,

Y. Venkatesh,

HT No:- 320008049

Y. Venkatesh

26-08-2019
Tirupati.

From,
P. Govardhan,
2nd BSc [BBC]
HT NO: 320008090
SGS Arts College,
Tirupati.

To,
The examination grievances
Redressal Cell,
SGS Arts College,
Tirupati.

Respected Sir,

I am P. Govardhan studying 1 sem
(BBC) em in SGS Arts College, requesting to Reassess-
ment ^{chemistry} microbiology paper. I for which am expecting
more marks than I got

Thanking you,

Yours faithfully,
P. Govardhan,
HT NO: 320008090.

28-08-2019,
Tirupati.

From
C. Rama Krishna,
1st BSc [M2C]
HT NO: 320008220
SGS Arts College,
Tirupati.

TO,
The examination Grievances
Redressal cell,
SGS Arts College,
Tirupati.

Respected Sir,

I am C. Ramakrishna 2nd BSc(M2C)
in SGS Arts College is informing you that I was
absent for internal exam in Chemistry paper-I
and requesting you write the exam in Leisure
hour.

Thanking you Sir,

Yours faithfully.

C. Rama Krishna,
HT NO: 320008220.

Phone: (0877) 2264599

E-mail:sgsartscollegettd@gmail.com

Web: sgsac.edu.in



TIRUMALA TIRUPATI DEVASTHANAMS
S.G.S. ARTS COLLEGE

Tiruchanur Road, TIRUPATI-517501

Academic year 2019-20 (I SEMESTER)

S.No	Name of the Student	Hall Ticket Number	Class	Nature of Internal Assessment	Date of Conduction	Subject	Nature of Grievance
1	A.Raghu kumar	320008026	MPC-EM	IA-I	08-08-2019	Chemistry	Retotalling
2	C.Uday kumar	320008036	MPC-EM	IA-I	08-08-2019	Chemistry	Reassessment
3	N.Kantha Reddy	320008044	MPC-EM	IA-I	08-08-2019	Chemistry	Absent due to in health and Request for reexamination
4	Y.Venkatesh	320008049	MPC-EM	IA-I	08-08-2019	Chemistry	Retotalling
5	G.Veeranjaneyulu	320008011	CBZ-TM	IA-I	08-08-2019	Chemistry	Absent due to in health and Request for reexamination
6	N.Lokesh	320008022	CBZ-TM	IA-I	08-08-2019	Chemistry	Absent due to in health and Request for reexamination
7	C.Ramakrishna	320008020	MZC-EM	IA-I	08-08-2019	Chemistry	Absent and Request for reexamination
8	K.Hari krishna	320008031	MZC-EM	IA-I	08-08-2019	Chemistry	Reassessment
9	N.Mayuri	320008041	MZC-EM	IA-I	08-08-2019	Chemistry	Reassessment
10	P.Govardhan	320008090	BBC-EM	IA-I	08-08-2019	Chemistry	Reassessment
11	S.Muni sindhuja	320008094	BBC-EM	IA-I	08-08-2019	Chemistry	Absent and Request for reexamination


PRINCIPAL
S.G.S. ARTS COLLEGE
TIRUPATI

To ensure transparency the students are allowed to write the Internal Examinations in the answer papers provided by the Institution. A sample answer sheet provided by the Institution for the Internal Examinations is shown below.

Tirumala Tirupati Devasthanams Degree & PG Colleges, Tirupati.
S.V. ARTS COLLEGE / S.P.W. COLLEGE / S.G.S. ARTS COLLEGE

Name of the Examination: Internal Examination Date: Retotalled
Name of the Student: A. Raghav Kumar Roll No.: 320008026
Class: B.Sc. Group: MPC Medium: EM Subject: CHEMISTRY
Paper: I
Q.Code: 48/50

No. of Additional sheets used 03

SECTION - A

Answer any four of the following questions.

1. Explain the structure of diborane?
2. What are the difference between d and f-block elements?
3. Write about the lanthanoid contraction.
4. Distinguish between conductors and insulators?
5. Write any two addition reactions of alkenes?
6. Briefly write about mesomeric effect?

SECTION - B

Answer any three questions.

- 1.a. Write the synthesis, structure & preparation of silanes?
b. What are silicoes? write the preparation methods and properties of silicoes?
- 2.a. Explain the oxidation states and magnetic properties of d-block elements?
b. (i) Explain the complex formation of f-block elements?
(ii) Write the difference between lanthanides and actinides?
- 3.a. Explain about the concept of Aromaticity.
b. Discuss the general mechanism of electrophilic substitution benzene.

Answers

Section A

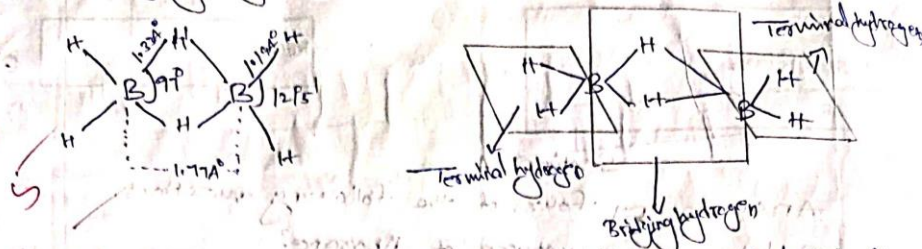
1A. Structure of diborane,
a. The molecular formula of diborane is B_2H_6 . If the structure of diborane resembles ethane (C_2H_6)

$$\begin{bmatrix} H & H \\ | & | \\ H-C & -C-H \\ | & | \\ H & H \end{bmatrix}$$

Then there is a need of fourteen electrons to form seven bonds. But only twelve electrons are available in B_2H_6 molecule. So there is no possibility of ethane like structure for diborane. So its structure is somewhat different from ethane.

b. Electron diffraction study revealed that the B_2H_6 contains hydrogen bridge structure, the two boron

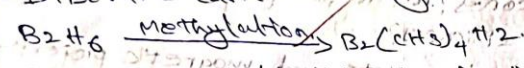
atoms and the four terminal hydrogen atoms are in a single plane which is perpendicular to the plane bridging hydrogen atoms.



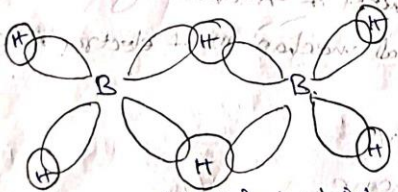
3. In diborane there is no bond between atoms it means there is no electron density between these two. No electron density is present in bridging bonds.

4. NMR spectra, Raman spectra and electron diffraction studies have shown that the four hydrogen atoms are of one type (terminal) and the two hydrogen atoms are in different environments, which is supported by the following facts:

5. Diborane can't be nitrated beyond tetramethyldiborane.



6. From the bond lengths also it is evident that there are two types of hydrogen bonds on the basis of MO theory the following structure was proposed for diborane.



empty sp^3 hybrid orbital of boron.

3. Normally in a group the atomic radius increases from top to bottom due to the increase in no. of shells.

On moving across a period, the atomic and ionic radii decrease from left to right because of increase in nuclear charge. In the case of d-block elements due to the shielding effect on electrons the decrease in size is very less.

In f-block elements the differentiating electrons enter into anti penultimate shell $(n-2)$. In lanthanides the atomic and ionic size decreases from left to right i.e. La to Lu. The atomic radii decreases from 1.88 to 1.75 Å.

1.73×10^8 and ionic radii decreases from $1.04 \text{ \AA}$ to $0.85 \text{ \AA}$.

This study decreases in atomic and ionic, it is called lanthanoid contraction.

Cause of lanthanoid contraction: In lanthanides, the nuclear charge increases with the increase of atomic no. But the differentiating electron enters into $4f$ subshell i.e. an inner f -type shell. The mutual shielding of f electrons is very less. But the nuclear charge increases from one element to other, it means the attraction between nucleus and outermost orbit increases. As a result, atoms undergo contraction. The shielding effect of f electrons is very less, hence decrease in size is more.

4.

Conductors	Insulators
1. The substance which allow the passage of electrical current through them are conductors. Eg: Metals like Cu, Ag, Au, Al etc. electrolytes and some gases. 2. Conductivity varies with temperature. 3. Filled band empty band are overlapped with one another or there is a small band gap between these two. 4. Resistance is very small. 5. It has positive temperature co-efficient and the valence band remains empty.	1. Substances which don't allow electric current through them are called insulators. Eg: Glass, rubber, plastic etc. 2. No effect of temperature. 3. In this case there is a large gap between the two. Hence conductivity not possible. 4. Resistance is very high. 5. It has negative temperature co-efficient and the valence band is occupied with full of electrons.

d-block elements	f-block elements
1. d-block elements are chemical elements having electrons filled with to their d-orbitals.	1. f-block elements are chemical elements having electrons filled to their f-orbitals.
2. Known as 'transition elements'.	2. Known as inner transition elements.
3. Show a wide range of oxidation states depending on their electron configuration.	3. Most stable oxidation state is +3, and there can be other oxidation state as well.
4. Almost all the elements are stable.	4. Most elements are radioactive.
5. Can be either transition elements or non-transition elements.	5. There are two series of Lanthanoids and actinoids.
6. Have partially or completely filled outermost d-orbitals.	6. Unified by having one or more of their outermost electrons in the f-orbital.

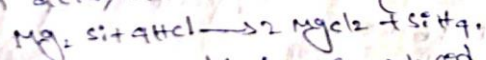
Section-B

1. a. Silanes: The binary compounds of silicon with hydrogen are called silanes. General formula of silanes is $\text{Si}_n\text{H}_{2n+2}$.

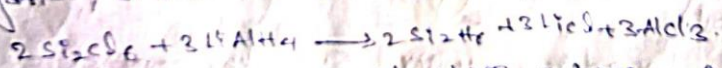
Ex: Silicane (or) monosilane - SiH_4 .

SiH_2Cl_2 (or) Disilane - Si_2H_6 .

Preparation method: When magnesium silicide is hydrolysed with acid, silicane is formed.



When silicon chloride is reduced with titania/aluminium hydride, silicane (or) disilane is formed.



Silanes are highly unstable and undergo oxidation, when exposed to air.



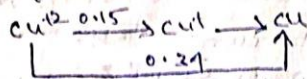
because - the conformational change
slowest.

3C	-	$[1x] 2d^1, 1d^2$	$12, 1+2$
TT	-	$[1x] 2d^2, 1d^2$	$12, 1+2, 1+1$
V	-	$[1x] 2d^3, 1d^2$	$12, 1+2, 1+1, 1+1$
CC	-	$[1x] 2d^5, 1d^1$	$12, 1+2, 1+1, 1+1, 1+1$
HN	-	$[1x] 3d^5, 1d^2$	$12, 1+2, 1+1, 1+1, 1+1, 1+1$
FC	-	$[1x] 3d^6, 1d^2$	$12, 1+2, 1+1, 1+1, 1+1, 1+1$
CO	-	$[1x] 3d^7, 1d^2$	$12, 1+2, 1+1, 1+1, 1+1, 1+1$
NP	-	$[1x] 3d^8, 1d^2$	$12, 1+2, 1+1, 1+1, 1+1, 1+1$
CH	-	$[1x] 3d^{10}, 1d^1$	$12, 1+2, 1+1, 1+1, 1+1, 1+1$
Zn	-	$[1x] 3d^{10}, 1d^1$	$12, 1+2, 1+1, 1+1, 1+1, 1+1$

Stability fails to have stable basis of stable configuration, 3-5 than Fe-12 (2-1). In the case of 4d and 5d series higher oxidation state are more stable. For example Mo oxide, stable oxidation state of these elements are VI and VIII respectively. Stability of oxidation states are explained with the help of CF diagram.

Latimer diagram:-

Latimer diagram:-
The potential diagram of copper is as shown below.



The species of copper are written in the form of a chain with highest oxidation state on the left and least reduced on the right. In this diagram, the $E^\circ(\text{Cu}^{2+}/\text{Cu})$ (0.15) and $E^\circ(\text{Cu}^{+}/\text{Cu})$ (0.52) are given but, we using the value for $E^\circ(\text{Cu}^{2+}/\text{Cu})$ which can be calculated by using the following rule.

Following rule:
Sum of the ne^0 values from left to right is equal to ne^0 in anticlockwise direction (i.e. right to left)

$$nE^\circ(Cu^{2+}/Cu) + nE^\circ(Cu/Cu) = nE^\circ(Cu^{2+}/Cu)$$

$$0.154 \text{ m} \cdot \text{e}^{\circ}(\text{Cu}^+/\text{Cu}) = 2 \times 0.34$$

$$nE^\circ(\text{Cu}^+/\text{Cu}) = 0.68 - 0.15 = 0.53 \text{ V}$$

From the above discussion it is clear that $E(\text{Cu}^{2+})$ is greater which indicates that it is thermodynamically unstable.

①

Applications:-

1. Silanes are used in manufacture of composite material to these glass fibres or carbon fibres with polymers.
2. Silanes are used as water repellants.
3. In the manufacture of semiconductors and sealants, silanes are used.
4. The supersonic combustion ramjet combustion of fuel is initiated by silanes.
5. Silanes can burn using CO_2 as oxidiser, it is good alternate fuel for engines operating on water.
6. Silanes are used as reducing agents.
7. A tetramethyl silane $[\text{Si}(\text{CH}_3)_4]$ is used as reference material in the study of proton magnetic spectra.

2.9. d-block elements exhibits various oxidation states the reason for this is availability of ns and (n-1)d elements for bonding, this is due to the smaller difference between the energies of ns and (n-1)d orbitals. It means both s and d-electrons can participate in bonding.

Stability of various oxidation states:

The electronic configuration of scandium is $3d^1 4s^2$. It's oxidation state is +2. It can also exhibit +3 oxidation state by using 4s and 3d electrons.

Similarly the remaining elements also show variable oxidation states. In each case the minimum oxidation state is equal to the no. of "s" electrons and maximum oxidation state is equal to sum of the s and unpaired d-electrons.

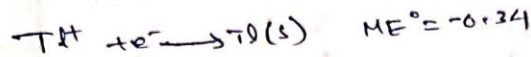
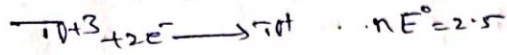
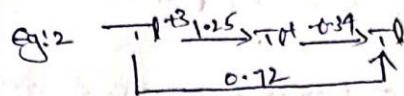
Zinc shows +2 oxidation state only this is due to higher stability of completely filled orbitals.

From scandium to Mn the oxidation state increases upto +7. From iron onwards the maximum oxidation state decreases this is due to pairing of d-electrons in d-orbitals.

A compound is said to be stable if it exists at room temperature and is not oxidised by air or not hydrolysed by water vapour or not oxidised by air or not hydrolysed by water vapour or not decomposed at normal temperature.

For example titanium exists in +4 and +3 states, +4 state is more stable because in +4 state the configuration is $3d^0$ $4s^0$ is more stable than $3d^1 4s^1$ state.

ADDITIONAL SHEET



Total = 2.16 V

From right to left $nE^{\circ} (\text{Tl}^{+3}/\text{Tl}) = 3 \times 0.72 = 2.16 \text{ V}$

Hence the rule is verified.

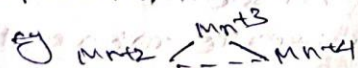
Latimer diagram: - On this diagram a graph is drawn b/w potential of various oxidation states & oxidation number.

This is useful to understand the stability of various oxidation states.

1. The most stable state lie at the bottom of a diagram.
2. The most stable state because it lies at bottom.
3. If the curve is steep the ion will be powerful oxidizing agent. In the fig. Mn^{+3} and Mn^{+6} are powerful oxidizing agents.

3. Disproportionation - Comproportionation: A dotted line is drawn between first and third oxidation state as shown in the figure.

(Mn^{+3} and Mn^{+5}). If the central ion (Mn^{+4}) lies below the dotted line, it is called comproportionation, if the central ion lies above the line then it is called disproportionation.

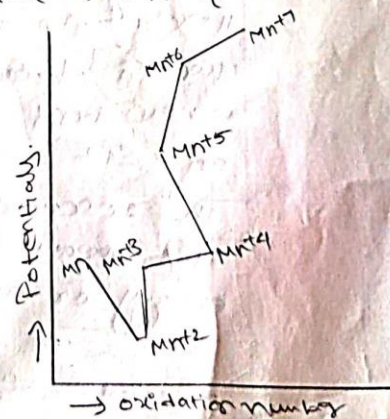


Magnetic property: Transition elements and their compounds exhibit magnetic properties.

There are two types:

- 1) Paramagnetic substances are those which are attracted by magnetic field. It is due to the presence of unpaired electrons. We know that a spinning charged body produces magnetic field. Each electron acts as a micro magnet and has a certain value of magnetic moment.

$\mu = \sqrt{n(n+2)}$



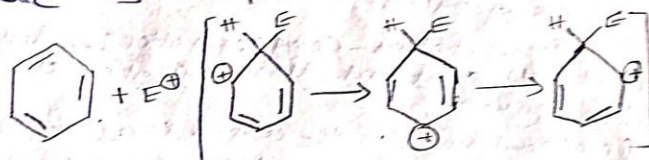
Where n is np the number of unpaired electrons.
 n is np also magnetic.
 Sc^{+2}, Ti^{+2}, V^{+3} are paramagnetic due to the presence of unpaired electrons. The expected magnetic np is as follows.

n	e^- (no. of unpaired electrons)
2.83...	2
3.87...	3
4.9...	4
5.92...	5
6.93...	6

The observed magnetic may be used to indicate the number of unpaired electrons.

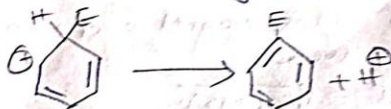
3.6 Electrophilic substitution reaction in benzene

Electron density in benzene is high due to the presence of six mobile π electrons. Benzene ring is therefore favorable for electrophilic attack. The mechanism of electrophilic substitution takes place as follows.



Here E^+ is electrophile. Since in the above reaction two π electrons of benzene are involved in forming a new bond with a benzene carbon and the electrophile, an sp^2 carbon in benzene becomes sp^3 carbon. The resonance energy of benzene diminishes somewhat. This means for the initial addition on benzene high energy or an energetic reagent is needed.

The carbocation formed as above has three resonance forms. The π electrons from the same place as the first addition. Benzene ring is resonance energy and gets stabilized.

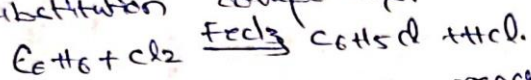


①

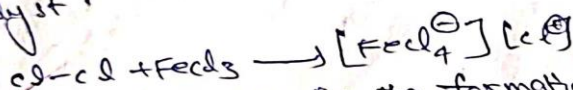
The preservation of the resonance stabilized benzene ring in these reaction is not worthy.

Example:

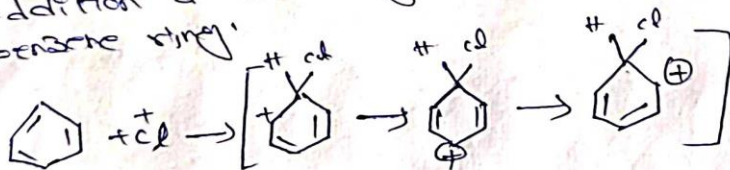
Halogenation: In presence of halogen carrier like $FeCl_3$, $AlCl_3$ and I_2 , chloride and bromine react with benzene at ordinary temperature giving substitution compounds.



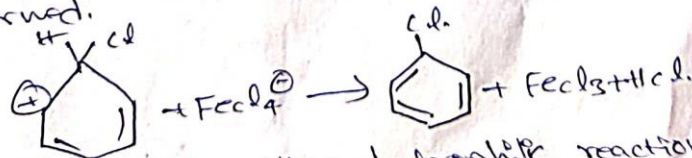
The first step in the reaction is electron polarisation in chlorine molecule through the formation of an intermediate compound of catalyst.



The second step is the formation of the intermediate carbonium ion, by the electrophilic addition of the halogenation ion upon the benzene ring.



The last step is the elimination of a proton from the intermediate carbonium ion and halogen is formed.



Similarly other electrophilic reactions like nitration, sulphonation, alkylation, and acylation occurs. The electrophiles in these reactions are respectively NO_2^+ , SO_3 , CH_3^+ and CH_3CO^+ .

"OM NAMO VENKATESAYA"

**TIRUMALA TIRUPATI DEVASTHANAMS, TIRUPATI
S.G.S ARTS COLLEGE, TIRUCHANNOOR ROAD, TIRUPATI**

DEPARTMENT OF CHEMISTRY

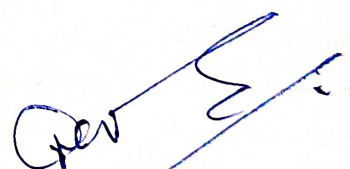
Sri D.PARAMESWARA
M.Sc., M.Phil.,(Ph.D)
parameswara1964@gmail.com
HOD OF CHEMISTRY

Phone No: 9490728655
Mail.ID:

Date: 28-08-2019

Notice

This is for information of all MPC, BBC, MZC & CBZ students of I, III & V semester students that the final marks they have obtained in the first internal examinations are displayed herewith in the list.


HOD
DEPARTMENT OF CHEMISTRY
S. G. S. ARTS COLLEGE
TIRUPATI
Department of chemistry

SEMESTER-I

Action taken report on students' examination related grievances:

The grievances received regarding internal examinations were redressed at the departmental level and the resolutions are recorded.

I.B.Sc: I SEM:: MPC-EM&TM

S.No	Hall Ticket Number	Name of the student	Internal-I (out of 50M)
1	320008026	A.Raghu kumar	50
2	320008027	A.VenkataArjun	36
3	320008028	A.Chandu prakash	36
4	320008029	B.Nagaraju naik	45
5	320008030	B.Sharmila	45
6	320008031	B.sri vijay	50
7	320008032	B.Simhadri	50
8	320008033	B.Varaprasad	50
9	320008034	B.Shasi kumar	50
10	320008035	C.Varaprasad	40
11	320008036	C.uday kumar	45
12	320008037	D.Karthik	35
13	320008038	E.Chandana priya	45
14	320008039	K.Vishnu prasad	40
15	320008040	M.Ramprasad	50
16	320008041	M.Raja	45
17	320008042	M.Tharunkumar	40
18	320008043	M.SandeepReddy	30
19	320008044	N.KanthaReddy	35
20	320008045	P.Bala subramanyam	35
21	320008046	P.Balasundaram	40
22	320008047	R.Shasidhar	40
23	320008048	T.Vishnuvardhan	40
24	320008049	Y.Venkatesh	50
25	320008050	Y.Gayathri	40

CBZ (TM)

S.No	H.T.No	Name of the student	Internal-I (out of 50M)
1	0320008001	AM SAMEERA	50
2	0320008002	BUKKE DINESH NAIK	50
3	0320008003	C.LAKSHMI NARAYANA	45

4	0320008004	CHALAMPATI HARINAD	40
5	0320008005	CHITTOOR HEMANTH KUMAR	50
6	0320008006	CHOWDAM CHANDRA SEKHAR	50
7	0320008007	DANDOLU SURYA	40
8	0320008008	DEVULA BALA CHANDRA	45
9	0320008009	DODDI MUNILATHA	50
10	0320008010	EDAGGOTTI SREE KANTH	50
11	0320008011	GOWRAYYU VEERANJINEYULU	35
12	0320008012	GUDISE RAJASEKHAR	50
13	0320008013	K SASI KUMAR	50
14	0320008014	KAMPA K USHA	40
15	0320008015	KEESARAM SWATHI	45
16	0320008016	KORADA SIDANANDA SARASWATHI	50
17	0320008017	KUDUMULA MADHU SUDHAN	50
18	0320008018	M NAVEEN NAIK	40
19	0320008019	MARI MANI DEEPA	50
20	0320008020	MARIGALA HARESSH	45
21	0320008021	MOOLINTI MUNEMMA	40
22	0320008022	NAMPALLI LOKESH	35
23	0320008023	PACHIGALLA SANDEEP KUMAR	35
24	0320008024	PALLI POINA MUNEDRA	30
25	0320008025	PASALA SANTHOSH KUMAR	45

MZC (EM)

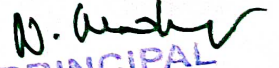
S.No	H.T.No	Name of the student	Internal-I (out of 50M)
1	320008212	A.Giriramesh	35
2	320008213	A.Girishma	50
3	320008214	A,Kartheek	40
4	320008215	B.Charanteja	45
5	320008216	B.Damodharnaik	50
6	320008217	B.Nadiya	50
7	320008218	B.Gurunadh	40
8	320008219	B.Lakshmiprasad	35
9	320008220	C.Ram krishna	35
10	320008221	C.Sureshbabu	45
11	320008222	C.Venkataramana	45
12	320008223	C.Chandu	45
13	320008224	G.Jahnavi	50
14	320008225	G.Raju	50
15	320008226	G.Reddissekhar naud	50
16	320008227	H.Naveen	50
17	320008228	I.Kotiah	30
18	320008229	J.Padma	35
19	320008230	K.Sohit kumar	30
20	320008231	K.Hari krishna	45

21	320008232	K.Ganesh	45
22	320008233	K.Mahesh	45
23	320008234	K.Vinodh kumar	45
24	320008235	M.M.Pandian	30
25	320008236	M.Padmavathi	50
26	320008237	m.Bramhareddy	40
27	320008238	M.Keerthana	40
28	320008239	M.Kumar	35
29	320008240	N.Usman	30
30	320008241	N.Mayuri	50
31	320008242	P.Lokesh	40
32	320008243	P.Vaishnavi	50
33	320008244	P.Dinesh	45
34	320008245	P.Reddiprakash	50
35	320008246	R.Pavithra	50
36	320008247	R.Geethika	50
37	320008248	S.Harinath	40
38	320008249	S.Reena	35
39	320008250	S.Rajesh	45
40	320008251	S.Rakesh	40
41	320008252	S,Nrendra reddy	35
42	320008253	T,Kiran kumar	50
43	320008254	V.Sai chaitanya	45
44	320008255	V.Gopalakrishna	40

BBC (EM)

S.No	H.T.No	Name of the student	Internal-I (out of 50M)
1	320008256	A.CHANDINI	30
2	320008257	A.POOJITHA	40
3	320008258	D. GOUTHAM KRISHNA	50
4	320008259	B.VENKATASAI KUMAR NAIK	45
5	320008260	V.MANJUNADH NAIK	35
6	320008261	D.GOVARDHAN	40
7	320008262	V.JANSI LAKSHMI	50
8	320008263	C.BABU	50
9	320008264	C.KARUNAKAR	45
10	320008265	C.RAMAKANTH	45
11	320008266	C..PRIYA	40
12	320008267	c.devi	45
13	320008268	e.vasu goud	50
14	320008269	g.madhavi	40
15	320008270	g.soumya	45
16	320008271	j.bhavani	50
17	320008272	K.RAJU	40
18	320008273	K.VENKATESH	45

19	320008274	K.RAJA	45
20	320008275	K.VENKATASURESH	45
21	320008276	K.SIUNETHA	45
22	320008277	K.RANGASWAMI	40
23	320008278	K.NARASIMHUDU	50
24	320008279	M.BALAJI	45
25	320008280	M.DEVENDRA	35
26	320008281	M.ANIL	50
27	320008282	M.NARAYANA	45
28	320008283	M.ANUDEEP GUPTHA	40
29	320008284	M.MUKESH	45
30	320008285	M.PRAKASH NAIK	45
31	320008286	M.SIVA KUMAR	35
32	320008287	M.BHANU SANKAR NAIDU	45
33	320008288	N.POONIMA	40
34	320008289	P.SUNIL	45
35	320008290	P.GOVARDHAN	50
36	320008291	P.PRADDEEP KUMAR	45
37	320008292	P.PARVATHI	35
38	320008293	T.UMAMAHESWAR	50
39	320008294	S.MUNI SINDUJA	30
40	320008295	S.PRAVALLIKA	35
41	320008296	S.KIRAN	45
42	320008297	S.RATHWICK PAUL JENNY	35
43	320008298	T.SREELATHA	45
44	320008299	T.MAHESH REDDY	40
45	320008300	U VENKATESH	40
46	320008301	V.RAMANJANEYULU	45
47	320008302	V.NETHISH KUMAR	40


 PRINCIPAL
 S.G.S. ARTS COLLEGE
 TIRUPATI

“OM NAMO VENKATESAYA”
TIRUMALA TIRUPATI DEVASTHANAMS, TIRUPATI
S.G.S ARTS COLLEGE, TIRUCHANOUR ROAD, TIRUPATI
DEPARTMENT OF CHEMISTRY

Sri D.PARAMESWARA

M.Sc., M.Phil.,(Ph.D)

HOD OF CHEMISTRY

Phone No: 9490728655

Mail.ID: parameswara1964@gmail.com

II B.Sc: III Semester			
MPC (EM&TM)			
S.No	H.T.No	Name of the student	Internal-I (out of 50M)
1	319008091	Obalavaram Arivind	45
2	319008092	KUMMARI ASHOK KUMAR	45
3	319008093	YANNAM BHARADHWAZ	35
4	319008094	B CHANDRASEKHAR	45
5	319008095	B. DATHATHREYUDU	35
6	319008096	KONDARI GIRI	48
7	319008097	DATTAM GOVARDHAN	50
8	319008098	DERANGI HAREESH	45
9	319008099	PICHIMUTHU HEMADRI	45
10	319008100	AARE HEMANTH KUMAR	45
11	319008101	PINJARI KARIMULLA	50
12	319008102	VANKA MAHESH	50
13	319008103	AVULA MALLIKARJUNA	50
14	319008104	BHAGATHAGALLA MANJUNATH	50
15	319008105	P MUNISEKHAR	45
16	319008106	SANGANI NANDAKUMAR	45
17	319008107	MATTEM NARENDRA	50
18	319008108	CHAKRALLA NAVEEN	AB
19	319008109	KALATHUR VETTI NITHISH	50
20	319008110	BOGGALA OBUL REDDY	50
21	319008111	N PAVAN KUMAR	40
22	319008112	ABBISSETTY PRAKASH	45
23	319008114	BATTINI SAMBASIVA NAIDU	50
24	319008115	PARI SASIKUMAR	40
25	319008116	RAMAVATH SEENA NAIK	45
26	319008117	BOYA SHIVARAMUDU	50

27	319008118	VADLA SUDHARSHAN ACHARI	50
28	319008119	CHEMURU SUNIL	35
29	319008120	GUVVALA SURENDRA	45
30	319008121	JANGAM REDDY SURESH	50
31	319008122	THATIPARTHI TEJA	50
32	319008124	ANAGANI VAMSI	45
33	319008125	MAMIDURU VEERESH	35
34	319008126	PASUPULETI VENKATA VARA PRASAD	45
35	319008127	CHIKKADU VENKATESH	45
36	319008128	GANTA VENKATESH	35
37	319008129	EGA VENKATESWARLU	40
38	319008130	BADIKALA VINAY KUMAR	40
39	319008131	CHALEMPALEM VISHNUVARDHAN	45
40	319008132	D YOGESH	50
CBZ (TM)			
S.No	H.T.No	Name of the student	Internal-I (out of 50M)
1	319008036	T. Asha	50
2	319008037	B Chandrasekahr Naik	45
3	319008038	C. Chandu	35
4	319008040	K. Durga	48
5	319008041	B Gangadhar	45
6	319008042	C. Gayathri	50
7	319008043	M. Hariprakash Naik	45
8	319008044	K. Himabindu	50
9	319008045	K. Kalpassana	35
10	319008046	G. Mahendra	50
11	319008047	A. Manendra	45
12	319008048	K. Manohar	50
13	319008049	B. Mohan Naik	45
14	319008050	G. Nagaraju	35
15	319008051	P. Nagendra Babu	AB
16	319008052	M. Naresh Babu	45
17	319008053	D. Sai Kumar	45
18	319008054	R. Venkataramana	35
MZC (EM)			
S.No	H.T.No	Name of the student	Internal-I (out of 50M)

1	319008001	A. BALAJI	35
2	319008002	G.BINDU	35
3	319008003	G.CHANDRA SEKAR	50
4	319008004	Y.DINESH BABU	35
5	319008005	B.GANESH	45
6	319008006	R.GAYATRI	50
7	319008007	T.GOUTHAM	45
8	319008008	D.GOUTHAM GOUD	30
9	319008009	M.GURRAMMA	50
10	319008010	K.KALYANI	45
11	319008011	K.LIKITHA	30
12	319008012	T.MOUNIKA	45
13	319008013	G.NAGARJUNA	35
14	319008014	E.NAVEEN	45
15	319008015	K.E. PAVANKUMAR	50
16	319008016	R.PAVITRA	AB
17	319008017	S. POOJA	50
18	319008020	B.RANGADU	AB
19	319008021	E.REDDY SEKHAR	50
20	319008022	K.SAI KRISHNA	35
21	319008024	V.SANDYA DEVI	35
22	319008026	S.SOMA SEKAR	45
23	319008027	P. SUBRAMANYAM	50
24	319008029	B.SUNKANNA	50
25	319008030	G.SWARNALATHA	40
26	319008031	R.TEJASWI	48
27	319008032	c.Tarun	45
28	319008033	n.venkatesh	30
29	319008034	d.vijay kumar	45
30	319008035	n.vinod kumar	35
BBC (EM)			
S.No	H.T.No	Name of the student	Internal-I (out of 50M)
1	319008238	T. BARATH KUMAR	45
2	319008239	K.BARGAV	45
3	319008240	P.CHANDRA SEKAHR	45
4	319008241	B.CHINNA	50
5	319008242	S.CHOUDAIAH	40
6	319008243	K.DEENA	50
7	319008244	B.DILIP	AB

8	319008246	B.HARI BABU	45
9	319008247	K.JAGADESWARA	40
10	319008248	M.CHANDRA	50
11	319008250	T.JAYARAM	45
12	319008251	B.LAKSHMI KANTH	45
13	319008252	K. LAKSHMI NARASIMHA	45
14	319008253	G.MALLIKARJUNA	50
15	319008254	S.MANJUNADH	50
16	319008255	M.MAREPPA	45
17	319008257	V.NAGENDRA PASAD	35
18	319008258	R.NAGESHA	50
19	319008259	P.NARASIMHA	45
20	319008260	M.NARASIMHULU	40
21	319008261	M.NAVEEN	45
22	319008262	A.PEDDA OBULESU	AB
23	319008263	P.PRATHIMA	50
24	319008264	M.RAJESH	40
25	319008265	K.RAMANAJANEYULU	40
26	319008266	D.RAMYA	35
27	319008267	G.SAILOKESH	45
28	319008268	S.SAAI SREE	35
29	319008269	D.SASI KUMAR	35
30	319008270	A.SATHISH	35
31	319008271	M.SATHISH KUMAR	45
32	319008272	K.SIVALINGA	35
33	319008273	U.SOMESWARA	35
34	319008274	T.SREEKANTH REDDY	45
35	319008275	S.SREENIVASULU	45
36	319008276	T.SUJAN	45
37	319008277	R.TEJASVI	45
38	319008279	D.VENUGOPALAKERISHNA	49
39	319008280	T,VIJAY	45


HEAD
DEPARTMENT OF CHEMISTRY
S. G. S. ARTS COLLEGE
TIRUPATHI

Grievances related to internal examinations.

The examination Grievances Redressal Cell has received the letters from the students regarding their grievances pertaining to internal assessment for the academic year 2019-20.

III SEMESTER

From, 29-08-2019
A. Pedda Obulesu
IIIrd Sem. BSC (SEM)
HT.No. 1- 319008262
SGS Arts College,
Tirupati.

To,
The Examination grievances,
Redressal cell,
SGS arts college,
Tirupati.

Respected Sir,

I, A. pedda Obulesu, Studying IIIrd Sem
BSC (BBC) in SGS Arts college. requesting you that i
was absent for Internal chemistry theory Exam.
please permit me to write.

Thankyou Sir.

your's faith fully,
A. Pedda Obulesu
IIIrd BBC
HT.No. 1- 319008262

Tirupati,
26.8.2019.

From
B. Dileep,
III Sem (BBC) EH,
HT. No: 319008244,
S.G.S. Arts College,
Tirupati.

To
The Examination grievenses,
Redressal Cell,
S.G.S. Arts college,
Tirupati.

Respected Sir,

I am B. Dileep, III Sem BBC (EH) is
requesting you that am absent in my chemistry
paper - III. Please permit me to write.

Thanking you Sir,

Yours faithfully
B. Dileep
III Sem (BBC) (EH),
HT. No: 319008244,
S.G.S. Arts college
Tpt.

FROM:-

R. pavithra

III sem, M2C

HT. 319008016

SGS Arts college
Tirupathi

Tirupati

27/08/2019

TO:-

The examination grievance
Redressal cell,

SGS Arts college
Tirupathi,

Respected sir,

I R. pavithra studying III sem(M2C)
SGS Arts college is requesting your that I
am absent for chemistry internal exam IIIrd
and allow me for re exam.

Thanking you sir.

your faithfully

R. pavithra

319008011

From

K. Durga

III sem CBZ (TM)

HT. No. 319008040

SGS Arts college,
Tirupathi.

Tirupathi,
28-08-2019.

To

The examination grievance,

redressal cell,

SGS Arts college,

Tirupathi.

Respected Sir,

I K. Durga studying III sem BSC CBZ (TM) in SGS ARTS college, I am requesting to reotal my Chemistry Paper III for which am expecting more marks than I got.

Thanking you,

Yours faithfully,
K. Durga,
319008040.

Tirupathi,
29/08/2019.

from,
P. Nagendra babu,
III sem CBZ (CTM),
HT. NO: 319008051,
SGS Arts college,
Tirupathi.

To
The Examination Grievances,
Redressal cells,
SGS Arts college,
Tirupathi.

Respected sir,

I am P. Nagendra babu CBZ (CTM)
III sem in SGS Arts college, is informing you that
I was absent for Internal exam in chemistry
paper - I and requesting you to unite the exam in
re: sure how.

Thanking you sir.

your's faithfully,
P. Nagendra babu,
319008051.

Tirupati,

28-06-2019

From,

Tejasree,

IIIrd MZC (EM),

HT. NO.:- 319008031,

S.G.S Arts College,

Tirupati.

To,

The Examination Grievances,

Redressal Cell,

Sgs arts college,

Tirupati.

Respected Sir,

I, Tejasree of IIIrd MZC, in Sgs arts college is requesting to retotal my Internal Exam paper of Chemistry - III

Thank you Sir,

Yours faithfully,

Tejasree,

IIIrd MZC,

HT. NO.:- 319008031

Tirupathi,
27-08-2019.

From

K. Girdi,
III sem MPC (EM),
HTNO :- 319008096,
SriS Arts College,
Tirupathi.

To

The examination grievances
Redressed cell,
SriS Arts College
Tirupathi.

Respected Sir,

I K. Girdi studying III sem (MPC) EM in
SriS Arts College, requesting to reassessment my chemistry paper
III sem for which am expecting more marks than I got.

Thanking you,

Yours faithfully,
K. Girdi,
Roll No :- 319008096.

III SEM

Tirupathi,
26-08-2019.

From,
C. Naveen,
III Sem (MPC) EM,
HT NO: 319008108,
SGS arts college,
Tirupathi.

To,
The examination grievances
Redressal cell,
SGS arts college,
Tirupathi.

Respected Sir,

I am C. Naveen IIIst semester MPC
in SGS arts college. is requesting you. That I am
absent in my chemistry paper II. please permit
me to write.

Thanking you.

Yours faithfully,
C. Naveen,
319008108.

Tirupati,
27.8.2019

From

D Venugopal Krishna,

III sem BBC (E.H)

H.T.No: 319008279,

S.G.S. Arts College,

Tirupati,

To

The Examination grievances,

Redressal cell,

S.G.S. Arts College,

Tirupati.

Respected Sir,

I D. Venugopal Krishna III sem BBC (E.H)
in S.G.S Arts college, is requesting to reassessment my
chemistry paper III sem for which am expecting more marks
that I got.

Thanking you sir,

Yours faithfully

D. Venugopal Krishna,

III sem BBC (E.H),

H.T.No: 319008279,

S.G.S Arts College,

Tirupati.

Tirupati
29-08-2019

From

B. Rangadu

III Sem MZC (EM)

HT-NO: 319008020

SJS Arts College

Tirupati

TO

The Examination grievances,
Redressal cell,
SJS Arts College
Tirupati.

Respected Sir,

I am B. Rangadu studying III
Sem MZC (EM) in SJS Arts college, requesting
you that i got absent for internal examination
in chemistry-III please permit me to write.

Thanking you sir

your faithfully

B. Rangadu

H.T.NO: 319008020

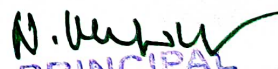


TIRUMALA TIRUPATI DEVASTHANAMS
S.G.S. ARTS COLLEGE

Tiruchanur Road, TIRUPATI-517501

Academic year 2019-20(III SEMESTER)

S.No	Name of the Student	Hall Ticket Number	Class	Nature of Internal Assessment	Date of Conduction	Subject	Nature of Grievance
1	K.Giri	319008096	MPC-EM	IA-I	08-08-2019	Chemistry	Reassessment
2	C. Naveen	319008108	MPC-EM	IA-I	08-08-2019	Chemistry	Absent and Request for reexamination
3	K.Durga	319008040	CBZ-TM	IA-I	08-08-2019	Chemistry	Retotalling
4	P.Nagendra Babu	319008051	CBZ-TM	IA-I	08-08-2019	Chemistry	Absent and Request for reexamination
5	A.Tejaswini	319008031	MZC-EM	IA-I	08-08-2019	Chemistry	Retotalling
6	B.Rangadu	319008020	MZC-EM	IA-I	08-08-2019	Chemistry	Absent and Request for reexamination
7	R.Pavithra	319008016	MZC-EM	IA-I	08-08-2019	Chemistry	Absent and Request for reexamination
18	A.Pedda obulesu	319008262	BBC-EM	IA-I	08-08-2019	Chemistry	Absent and Request for reexamination
9	D.Venugopala Krishna	319008279	BBC-EM	IA-I	08-08-2019	Chemistry	Reassessment
10	B.Dilip	319008244	BBC-EM	IA-I	08-08-2019	Chemistry	Absent and Request for reexamination


PRINCIPAL
S.G.S. ARTS COLLEGE
TIRUPATI

Sample answer papers for Internal Examinations

To ensure transparency the students are allowed to write the Internal Examinations in the answer papers provided by the Institution. A sample answer sheet provided by the Institution for the Internal Examinations is shown below.

		Tirumala Tirupati Devasthanams Degree & PG Colleges, Tirupati.	
S.V. ARTS COLLEGE / S.P.W. COLLEGE / S.G.S. ARTS COLLEGE			
Name of the Examination: <u>Internal Examination</u>		Date: <u>8.8.2019</u>	
Name of the Student: <u>A. Tejaswini</u>		Hall Ticket No: <u>319008031</u>	
Class: <u>B.Sc.</u> Group: <u>M.C.C.</u> Medium: <u>Eng.</u>		Subject: <u>Chemistry</u>	
No. of Additional sheets used: <u>01</u>		Paper: <u>Paper III</u>	
		Marks: <u>40</u> <u>50</u> P.T. 100	

SECTION A

2) Band Theory: formation of a sommerfeldt and P. Bloch proposed band theory of solids. They tried to explain the metal bonds with the help of electron bands. in order to understand the concept of band and use in bonding. the following points will help.

- i) one of the bands origination from 1s atomic orbital is fully occupied because 1s orbital is fully filled ($1s^2$) is band is narrow as well non-conducting band.
- ii) one of the band origination from 2s atomic half occupied because 2s orbital is half filled with upper half.
- iii) The levels of 2s band are very close so that electrons can go from this band is thus, "conducting band" It is called valence band.
- iv) The band between 1s and 2s band that promotion of electrons from lower band.
- v) The band originating from 2p orbital is empty. The energy gap between 2s and 2p band (2p) take place.

38
50

4] Separation of Lanthanides:

There are many points of similarity between actinides and Lanthanides. In both these series (n-2)f shells are progressively filled. There is actinide contraction similar to lanthanide contraction. Like Lanthanide ions, many actinide ions are coloured and show paramagnetic behaviour.

They also differ in some respects. Lanthanides have a far greater tendency to form complexes than actinides due to relatively lower binding energies of actinides. A rough qualitative diagram for binding energies of 5f and 6d electrons is shown in fig. 4.10.

It is clear from this diagram that 5f level becomes progressively lower in energy as compared to 6d level, number increases.

10ms

Explain the EAN Rule

EAN Rule: The number of secondary valencies in the Werner's theory is now called the coordination number of the central metal in the complex. This is the number of ligand atoms bonded to the central metal ion. Each ligand donates an electron pair to the metal, thus forming a coordination

bond. Transition metals form coordination compounds very readily because d-orbitals bond can accommodate their electron pairs. The electronic arrangement of the known to be very stable.

Sidgwick, with his effective atomic number rule, suggested that electron pairs from ligands were added until gas considered potassium hexacyanoferrate II. An iron atom 26 electrons and so the Fe^{2+} has 24 electrons. The next noble gas has 36 electrons. In the end complex the $[Fe(CN)_6]^{4-}$ to 36.

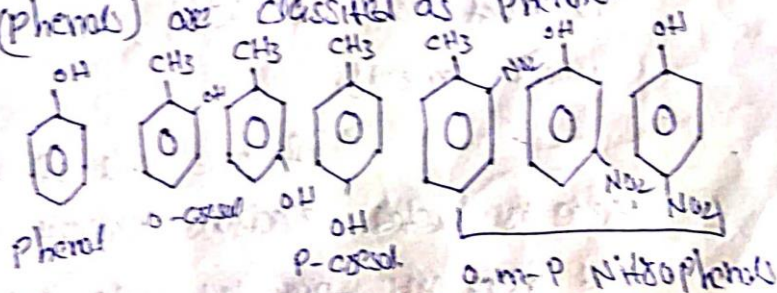
Phenols

noted of Phenols Two types of aromatic hydroxy compounds are known:

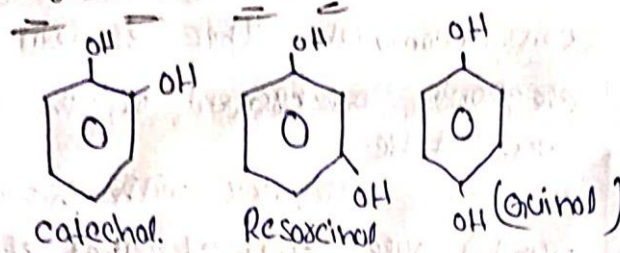
(a) Nucleus substituted - OH group: These compounds in which one or more nucleus hydrogen atoms of benzene ring are replaced by - OH group, are called Phenols. Such compounds are acidic in nature.

They turn blue litmus red but do not decompose and bicarbonates. These

(phenols) are classified as Phenols



(ii) Dihydric Phenols are:

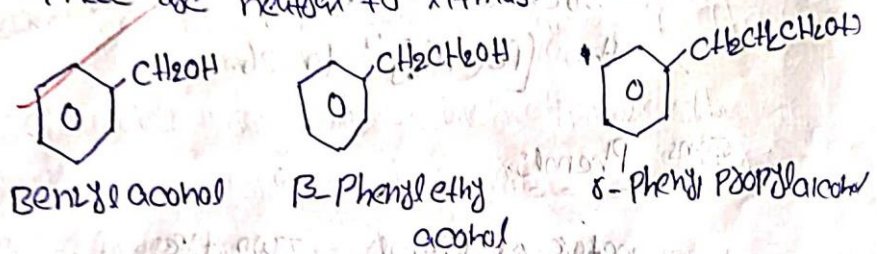


(b) side chain substituted - OH group.

Those

compounds in which -OH group is attached to side chain are known as aromatic alcohols.

These are neutral to litmus.



Section - B

2b

compos of the conductors. Insulators :

Electrical conductivity is possible when partially filled energy bands are.

Present or in empty or partially filled energy band overlap with completely filled

There must be unfilled close to the so that can be easily promoted with a small energy.

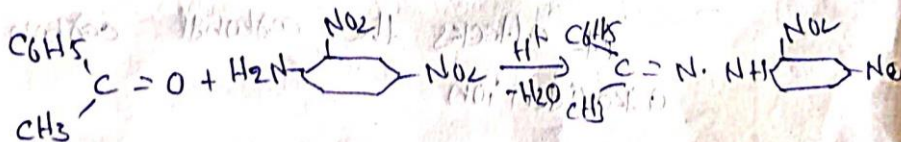
If one end of the metal piece is heated, electrons present at that end energy are promoted into a vacant

molecular orbitals in which they move to any part of the metal rapidly similarly electric conduction occurs by small mass orbital and the which cause the conduction of electric current by filling which on promotion is called "conduction band" and molecule orbital is called band orbitals extend throughout the crystal.

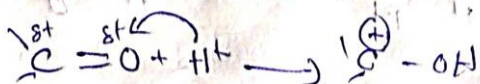
b) semi-conductors which increase in temperature, the conductivity of metals decreases while some materials the conductivity with in temperature and such materials are called semiconductors - one of

9. Two types a small band gap, Both the promoted electrons to the conduction band unpaired electrons and one.

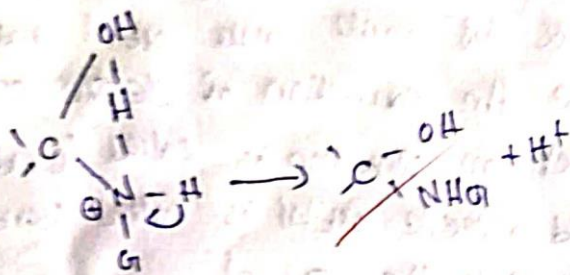
Reaction with 2,4-DNP: All aldehydes and ketones give yellow or orange ppt. with it.



Step 1: The H^+ ion from the said catalyst protonates the carbonyl oxygen to form carbocation ion.

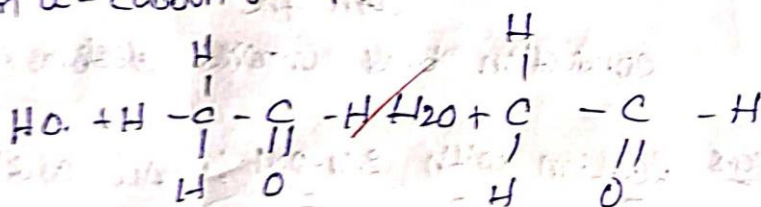


step ii. The product formed in the second step, loses a proton and water molecule. As a result the final product is formed.

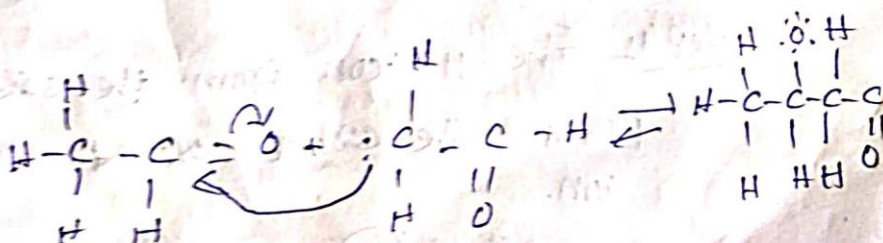


(c) Base catalysed reactions: some of the base catalysed reactions which involve the formation of carbanions are as under:

step 1: Hydroxide ion abstracts a proton from α -carbon of the ketone to form carbanion.



step 2: The above carbanion is a nucleophile. It attacks the carbonyl carbon of the ketone.



SEMESTER-III

Action taken report on students' examination related grievances:

The grievances received regarding internal examinations were redressed at the departmental level and the resolutions are recorded.

Academic year 2019-20

II.B.Sc: III Semester MPC-EM&TM			
S.No	H.T.No	Name of the student	Internal-I (out of 50M)
1	0319008091	obalavaram arivind	45
2	0319008092	KUMMARI ASHOK KUMAR	45
3	0319008093	YANNAM BHARADHWAZ	35
4	0319008094	B CHANDRASEKHAR	45
5	0319008095	B. DATHATHREYUDU	35
6	0319008096	KONDARI GIRI	50
7	0319008097	DATTAM GOVARDHAN	50
8	0319008098	DERANGI HAREESH	45
9	0319008099	PICHIMUTHU HEMADRI	45
10	0319008100	AARE HEMANTH KUMAR	45
11	0319008101	PINJARI KARIMULLA	50
12	0319008102	VANKA MAHESH	50
13	0319008103	AVULA MALLIKARJUNA	50
14	0319008104	BHAGATHAGALLA MANJUNATH	50
15	0319008105	P MUNISEKHAR	45
16	0319008106	SANGANI NANDAKUMAR	45
17	0319008107	MATTEM NARENDRA	50
18	0319008108	CHAKRALLA NAVEEN	30
19	0319008109	KALATHUR VETTI NITHISH	50
20	0319008110	BOGGALA OBUL REDDY	50
21	0319008111	N PAVAN KUMAR	40
22	0319008112	ABBISSETTY PRAKASH	45

23	0319008114	BATTINI SAMBASIVA NAIDU	50
24	0319008115	PARI SASIKUMAR	40
25	0319008116	RAMAVATH SEENA NAIK	45
26	0319008117	BOYA SHIVARAMUDU	50
27	0319008118	VADLA SUDHARSHAN ACHARI	50
28	0319008119	CHEMURU SUNIL	35
29	0319008120	GUVVALA SURENDRA	45
30	0319008121	JANGAM REDDY SURESH	50
31	0319008122	THATIPARTHI TEJA	50
32	0319008124	ANAGANI VAMSI	45
33	0319008125	MAMIDURU VEERESH	35
34	0319008126	PASUPULETI VENKATA VARA PRASAD	45
35	0319008127	CHIKKADU VENKATESH	45
36	0319008128	GANTA VENKATESH	35
37	0319008129	EGA VENKATESWARLU	40
38	0319008130	BADIKALA VINAY KUMAR	40
39	0319008131	CHALEMPALEM VISHNUVARDHAN	45
40	0319008132	D YOGESH	50

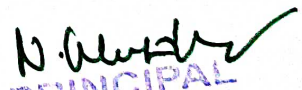
CBZ (TM)

S.No	H.T.No	Name of the student	Internal-I (out of 50M)
1	0319008036	T. Asha	50
2	0319008037	B Chandrasekahr Naik	45
3	0319008038	C. Chandu	35
4	0319008040	K. Durga	50
5	0319008041	B Gangadhar	45
6	0319008042	C. Gayathri	50
7	0319008043	M. Hariprakash Naik	45
8	0319008044	K. Himabindu	50
9	0319008045	K. Kalpassana	35
10	0319008046	G. Mahendra	50
11	0319008047	A. Manendra	45
12	0319008048	K. Manohar	50
13	0319008049	B. Mohan Naik	45

14	0319008050	G. Nagaraju	35
15	0319008051	P. Nagendra Babu	30
16	0319008052	M. Naresh Babu	45
17	0319008053	D. Sai Kumar	45
18	0319008054	R. Venkataramana	35
MZC (EM)			
S.No	H.T.No	Name of the student	Internal-I (out of 50M)
1	319008001	A. BALAJI	35
2	319008002	G.BINDU	35
3	319008003	G.CHANDRA SEKAR	50
4	319008004	Y.DINESH BABU	35
5	319008005	B.GANESH	45
6	319008006	R.GAYATRI	50
7	319008007	T.GOUTHAM	45
8	319008008	D.GOUTHAM GOUD	30
9	319008009	M.GURRAMMA	50
10	319008010	K.KALYANI	45
11	319008011	K.LIKITHA	30
12	319008012	T.MOUNIKA	45
13	319008013	G.NAGARJUNA	35
14	319008014	E.NAVEEN	45
15	319008015	K.E. PAVANKUMAR	50
16	319008016	R.PAVITRA	35
17	319008017	S. POOJA	50
18	319008020	B.RANGADU	30
19	319008021	E.REDDY SEKHAR	50
20	319008022	K.SAI KRISHNA	35
21	319008024	V.SANDYA DEVI	35
22	319008026	S.SOMA SEKAR	45
23	319008027	P. SUBRAMANYAM	50

24	319008029	B.SUNKANNA	50
25	319008030	G.SWARNALATHA	40
26	319008031	R.TEJASWI	50
27	319008032	c.Tarun	45
28	319008033	n.venkatesh	30
29	319008034	d.vijay kumar	45
30	319008035	n.vinod kumar	35
BBC (EM)			
S.No	H.T.No	Name of the student	Internal-I (out of 50M)
1	319008238	T. BARATH KUMAR	45
2	319008239	K.BARGAV	45
3	319008240	P.CHANDRA SEKAHR	45
4	319008241	B.CHINNA	50
5	319008242	S.CHOUDAIAH	40
6	319008243	K.DEENA	50
7	319008244	B.DILIP	45
8	319008246	B.HARI BABU	45
9	319008247	K.JAGADESWARA	40
10	319008248	M.CHANDRA	50
11	319008250	T.JAYARAM	45
12	319008251	B.LAKSHMI KANTH	45
13	319008252	K. LAKSHMI NARASIMHA	45
14	319008253	G.MALLIKARJUNA	50
15	319008254	S.MANJUNADH	50
16	319008255	M.MAREPPA	45
17	319008257	V.NAGENDRA PASAD	35
18	319008258	R.NAGESHA	50
19	319008259	P.NARASIMHA	45
20	319008260	M.NARASIMHULU	40

20	319008260	M.NARASIMHULU	40
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22	319008262	A.PEDDA OBULESU	40
23	319008263	P.PRATHIMA	50
24	319008264	M.RAJESH	40
25	319008265	K.RAMANA JANEYULU	40
26	319008266	D.RAMYA	35
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36	319008276	T.SUJAN	45
37	319008277	R.TEJASVI	45
38	319008279	D.VENUGOPALAKERISHNA	50
39	319008280	T.VIJAY	45


 PRINCIPAL
 S.G.S. ARTS COLLEGE
 TIRUPATI

“OM NAMO VENKATESAYA”
TIRUMALA TIRUPATI DEVASTHANAMS, TIRUPATI
S.G.S ARTS COLLEGE, TIRUCHANOUR ROAD, TIRUPATI
DEPARTMENT OF CHEMISTRY

Sri D.PARAMESWARA
M.Sc., M.Phil.,(Ph.D)
HOD OF CHEMISTRY

Phone No: 9490728655
Mail.ID: parameswara1964@gmail.com

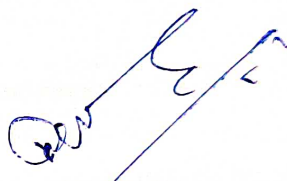
Academic year 2019-20

III YEAR, V SEM, MPC (TM &EM) PAPER V			
S.No	H.T.No	Name of the student	Internal-I (out of 50M)
1	318008195	V. Ajith Kumar	40
2	318008197	K. Chandu	35
3	318008198	T. Chiranjeevi	30
4	318008199	M. Ganesh	40
5	318008201	C. Gnana Sekhar	30
6	318008203	Y. Hanumatnlu	45
7	318008204	B. Hari Prasad	35
8	318008205	P. Hemanath	45
9	318008206	Y. Hemanth Kumar	50
10	318008207	A.K. Jagadeesh	50
11	318008208	P. Mahesh	45
12	318008211	M. Mahesh	35
13	318008212	V. Mahesh Babu	40
14	318008213	M. Mallikarjuna	35
15	318008214	K. Muni Kumar	45
16	318008215	V. Murali	50
17	318008216	P. Mnagaraju	50
18	318008217	BV. Nageswara	40
19	318008218	S. Nanda Kumar	30
20	318008220	J. Newtron	35
21	318008221	P. Pavan Kalyan	50
22	318008222	V. Pavan Kalyan Naik	45
23	318008223	D. Pameela	50
24	318008225	M. Prasanth	45
25	318008229	B. Rajesh	30
26	318008230	M. Rajesh Naik	35
27	318008233	M. Rakesh	30
28	318008235	P. Ravi Shankar	50

29	318008237	M. Sai Radhakrishna	40
30	318008240	P. Sivakumar Reddy	35
31	318008244	O. Sreekanth	40
32	318008246	P. Sudheer	35
33	318008247	N. Suman	45
34	318008248	T. Sumanth Naidu	30
35	318008249	A. Venkatesh	45
36	318008251	P. Vinod Kumar	40
37	317008009	B.LOKESH	35
CBZ (TM)			
S.No	H.T.No	Name of the student	Internal-I (out of 50M)
1	318008038	S. Balaji Naik	AB
2	318008039	M. Dhanaraj	50
3	318008041	B. Hari Krishna	45
4	318008045	K. Mahesh	40
5	318008046	M. Passavithra	35
6	318008048	K. Raghavendra	50
7	318008049	T. Revathi	45
8	318008050	P. Sai	45
9	318008052	B. Sravani	45
10	318008054	G. Suman	45
11	318008055	E. Suri	50
12	318008057	M. Venkatesh	45
13	318008058	V. Venkatesh	40
14	318008060	K. Vikram	45
MZC (EM)			
S.No	H.T.No	Name of the student	Internal-I (out of 50M)
1	318008254	A. Balaji	50
2	318008256	B. Venkatesh	50
3	318008257	B. Mohan Naik	40
4	318008258	B. Anwarlar Hussain	30
5	318008259	C. Gayathri	30
6	318008260	P. Devendra Goud	50
7	318008261	S. Dileepass	50
8	318008263	G. Jaya Kumar	50
9	318008264	K. Passoojitha	50
10	318008265	K. Vamsi	30
11	318008266	S. Manikanta	50

12	318008267	SK. Mazeed Babu	45
13	318008268	N. Passraveen Naik	45
14	318008270	P. Rakesh Naik	45
15	318008271	P. Srinivasulu	45
16	318008274	G. Passandu Ranga	45
17	318008276	P. Deva	35
18	318008279	M. Ramesh	35
19	318008280	K. Sandeep Kumar	45
20	318008282	K. Sharifal Basha	35
21	318008283	M. Sreedhar	50
22	318008284	T. Akash	30
23	318008285	M. Vamsi Krishna Naik	45
24	318008286	V. Passrem	50
25	318008287	B. Venkatasubbaiah	45
26	318008288	A. Venkata Sai	45
27	318008289	B. Yugandhar	40
BBC (EM)			
S.No	H.T.No	Name of the student	Internal-I (out of 50M)
1	318008143	T.AVINASH	45
2	318008145	K.BAGYA LAKSHMIS.GANGADHAR	45
3	318008146	S.GANGADHAR	35
4	318008147	M.GAYATRI	40
5	318008148	S.GIRISH KUMAR	50
6	318008150	E.GOPINADH GOUD	35
7	318008154	P.JAHNAVII	50
8	318008155	M.JITESH	45
9	318008156	G.KIRAN KUMAR	30
10	318008158	M.KOTESWAR RAO	45
11	318008159	M.KUSUMA PPRIYA	45
12	318008160	C.LOKESH	30
13	318008161	C.MADHU MOJHAN	30
14	318008163	G.,MAHESH	40
15	318008164	G.MAHESH	30
16	318008165	V.MAHESH BABU	35
17	318008166	S.MUNI KUMAR	40
18	318008167	P.NITESH KUMAR	40
19	318008169	C.PAVAN KUMAR	35
20	318008171	D.PRADEEP KUMAR	35
21	318008173	R.PRIYANKA	30

21	318008173	R.PRIYANKA	30
22	318008174	P.VAMSIDHAR REDDY	35
23	318008176	C.RENUKA	35
24	318008177	G.SARITHA	40
25	318008179	K.SIVA	35
26	318008181	K.SREENIVASULU	40
27	318008184	M.SUNIL KUMAR	30
28	318008186	P.SWATHI PRIYA	30
29	318008187	K.TIRUMALLESH	40
30	318008189	K.UMA	35
31	318008190	.VENKATESH	45
32	318008191	J.VENKATESH	40
33	318008193	V.VISHNU VARDHA	35


HEAD
 DEPARTMENT OF CHEMISTRY
 S. G. S. ARTS COLLEGE
 TIRUPATHI

Grievances related to internal examinations.

The examination Grievances Redressal Cell has received the letters from the students regarding their grievances pertaining to internal assessment for the academic year 2019-20.

SEMESTER-V (PAPER-5)

SEM - 5th paper

28-08-2019,
Tirupathi.

From,

K. Raghavendra,
V SEM CBZ (TM),
HT- No. 318008048,
SGS Arts College,
Tirupathi.

To,

The Examination grievance
Redressal cell,
SGS arts college,
Tirupathi.

Respected Sir,

I am K. Raghavendra V SEM CBZ (TM)
is requesting you for retotaling in paper V chemistry
internal examination.

Thanking you.

Yours faithfully,
K. Raghavendra
318008048

11 - PHM - V

26-08-2019,
Tirupathi

From,

K. Siva

V SEM BSc (EM)

HT No. 318008179

Sgs arts college

Tirupathi.

To,

The Examination Grievances
redressal cell

Sgs arts college,

Tirupathi.

Respected Sir,

I K. Siva is requesting to reassess
my internal chemistry paper V.

Thank you.

Yours faithfully,

K. Siva

HT 318008179

From

S. Nandakumar,

V sem, MPC (E.M),

H.T.No: 318008218,

S.G.S. Arts college,

Tirupati.

27.8.2019

Tirupati.

To

The Examination Grievances,

Redressal cell,

S.G.S. Arts college,

Tirupati.

Respected Sir,

Due to transportation problem, I have not attended the chemistry internal Examination paper V. Kindly reconduct the Examination.

Thanking you sir,

Yours faithfully,

S. Nandakumar,

V sem, MPC (E.M)

S.G.S Arts college

Tirupati.

From
G. Mahesh,
V Sem, BBC (EH)
#TNO: 318008163
S.G.S Arts College,
Tirupati,
To
The Examination Grievances,
Redressal Cell,
S.G.S Arts College,
Tirupati.

Respected Sir,

Due to transportation problem, I have not attended the Chemistry Internal examination paper V, kindly reconduct the examination.

Thanking you Sir

Yours faithfully
G. Mahesh,
V Sem, BBC (EH)
S.G.S Arts College,
Tpt

Tirupati,
26.8.2019.

SEMESTER-V (Paper-6)

SEM - Paper - V

From
M. Venkatesh,
V. Sem CB2 GTD
HT No: 318008057
S.G.S. Arts college,
Tirupathi,

26.8.2019
Tirupathi.

To
The Examination Grievances,
Redressal Cell,
S.G.S. Arts college,
Tirupathi.

Respected Sir,

Due to transportation problem
I have not attend to the chemistry Examination.
Please Sir kindly reconduct the examination.

Thanking you Sir,

Yours faithfully
M. Venkatesh
V Sem CB2 GTD
S.G.S. College
Tirupathi

Tirupeti.
28.5.2019.

From

M. Ramesh,

V sem M2C (EM),

HT.No: 315008279,

To

The examination Grievances,

Redressal Cell,

SG.S.Arts college,

Tirupeti.

Respected Sir,

Due to transportation problem,
I have not attended the Chemistry internal Examination
Paper VI. kindly reconduct the examination.

Thanking you Sir,

Yours faithfully

M. Ramesh,

V sem M2C (EM)

Tirupeti.

29.8.2019.

From
K. Uma

II Sem BBC (EM)
HTNO: 318008189
S.G.S. Arts College
Tirupathi.

To
The Examination Grievances,
Redressal Cell,
S.G.S. Arts College,
Tirupathi

Respected Sir,

Due to transportation problem
I have not attended the chemistry internal examination
Paper II. Kindly reconduct the examination.

Thanking you Sir,

Yours faithfully
K. Uma
II Sem BBC (EM)
S.G.S. Arts College
Tirupathi.

From

O. Sreekanth

V Sem MPC (E.M)

H-No: 31800244

S.G.S Arts College,
TIRUPATI.

29/8/2019
TIRUPATI.

TO

The Examination
Grievances Redressal Cell
S.G.S. Arts College,
TIRUPATI.

Sir,

I O. Sreekanth studying V Sem MPC (E.M)
in S.G.S Arts College, requesting to reassess
my Chemistry V Paper in internal Examination.

Thanking you,

Yours faithfully
O. Sreekanth

H-No. 31800244.

am,

C. Ganesesha

V SEM MPC (EM)

318008209

Sgs arts colln,

Tirupath.

29-8-2019
Tirupath.

To,

The examination grievance
redressal cell,

Sgs arts colln,

Tirupath.

Respected sir,

I C. Ganesesha V SEM, MPC (EM)
studying in sgs arts college is absent for internal
theory exam in chemistry paper II. so kindly
give me permission to write the exam.

Thanking you.

Yours faithfully

C. Ganesesha

318008209

Phone: (0877) 2264599
sgsac.edu.in

E-mail:sgsartscollegett@gmail.com

Web:



TIRUMALA TIRUPATI DEVASTHANAMS
S.G.S. ARTS COLLEGE

Tiruchanur Road, TIRUPATI-517501

Academic year 2019-20(V SEMESTER:Paper-5)

S.No	Name of the Student	Hall Ticket Number	Class	Nature of Internal Assessment	Date of Conduction	Subject	Nature of Grievance
1	S.Nanda Kumar	318008218	MPC-EM	IA-I	12-08-2019	Chemistry	Absent and Request for reexamination
2	K.Ragavendra	318008048	CBZ-TM	IA-I	12-08-2019	Chemistry	Retotaling
3	M.Ramesh	318008279	MZC-EM	IA-I	12-08-2019	Chemistry	Absent and Request for reexamination
4	G.Mahesh	318008163	BBC-EM	IA-I	12-08-2019	Chemistry	Absent and Request for reexamination
5	K.Siva	318008179	BBC-EM	IA-I	12-08-2019	Chemistry	Reassessment

Academic year 2019-20(V SEMESTER:Paper-6)

1	C.Gnana Sekhar	318008201	MPC-EM	IA-I	12-08-2019	Chemistry	Absent and Request for reexamination
2	O.Sreekanth	318008244	MPC-EM	IA-I	12-08-2019	Chemistry	Reassessment
3	M.Venkatesh	318008057	CBZ-TM	IA-I	12-08-2019	Chemistry	Absent and Request for reexamination
4	M.Ramesh	318008279	MZC-EM	IA-I	12-08-2019	Chemistry	Absent and Request for reexamination
5	K.Uma	318008189	BBC-EM	IA-I	12-08-2019	Chemistry	Absent and Request for reexamination

N. Venkatesh
PRINCIPAL
S.G.S. ARTS COLLEGE
TIRUPATI

Sample answer papers for Internal Examinations

To ensure transparency the students are allowed to write the Internal Examinations in the answer papers provided by the Institution. A sample answer sheet provided by the Institution for the Internal Examinations is shown below.

50
50

Retotalled

48
50

Tirumala Tirupati Devasthanams Degree & PG Colleges, Tirupati.
S.V. ARTS COLLEGE / S.P.W. COLLEGE / S.G.S. ARTS COLLEGE

Name of the Examination: Internal Examination Date: 12/8/2019

Name of the Student: G. Jayakumar Roll No.: 318008269

Class: B.Sc. Group: M.Z.C. Medium: E.M. Subject: Chemistry

Paper: V O. Code: 48

No. of Additional sheets used 01

Section-A

3 Ans Acidic nature of Nitroalkanes :-

These -halogen atom of primary secondary Nitroalkanes are weakly acidic and this can be abstracted by strong alkalis like NaOH. Therefore 1° and 2° nitroalkanes in aq NaOH to form salts.

Example :-

$$\text{CH}_3-\text{N}^{\oplus}(\text{O})=\text{O} \xrightarrow{\text{NaOH}} \text{NaCH}_2-\text{N}^{\oplus}(\text{O})=\text{O} \longleftrightarrow \text{CH}_2=\text{N}^{\oplus}(\text{O})-\text{O}^- \text{Na}^+$$

The primary and secondary alkanes are acidic mainly due to the following two reasons they are.

- (i) Due to the presence of strong withdrawal group like NO_2 it cause -I effect on α -carbon. So α -hydrogen easily lose as proton in presence of strong alkali.
- (ii) The Carbanion formed after the removal of proton undergo Resonance stabilized as shown above. Hence 1° and 2° Nitroalkanes always steady to lose α hydrogen as proton in presence of alkali to form more stabilized Carbanion.

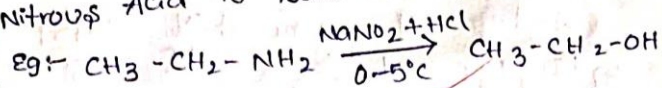
Due to the above two Reasons the Nitroalkanes are acidic in nature.

2
Ans

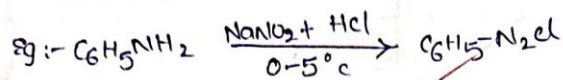
primary amines react with nitrous acid:-

Aliphatic primary amines react with

Nitrous Acid to form alcohols and nitrogen gas.



Aromatic primary (1°) amines react with nitrous acid to form diazonium salt.



4
Ans

Specific heat capacity:- The amount of heat required to raise the temperature of the substance by one degree (1°C) is called specific heat capacity.

Molar heat capacity:- The amount of heat required to raise the temperature of one mole of gas by one degree (1°C) is molar heat capacity.

5
Ans

Relation between C_p and C_v :- The amount of heat required to raise the temperature of one mole of gas by one degree at constant volume is called the heat capacity at constant volume.

$$Q_v = C_v (T_2 - T_1) = C_v \Delta T \rightarrow \text{①}$$

$$Q = \Delta E + p \Delta V$$

$$\text{at constant volume } Q_v = \Delta E \rightarrow \text{②}$$

from eq ① & ②

$$\Delta E = C_v \Delta T$$

$$\therefore C_v = \frac{\Delta E}{\Delta T} \rightarrow \text{③}$$

$$C_p = \frac{\Delta H}{\Delta T} \rightarrow \text{④}$$

For small change, equations ③ & ④ can be written as

$$C_v = \frac{d\varepsilon}{dT} \text{ and } C_p = \frac{dH}{dT} \rightarrow (5)$$

Differentiating the above equations

$$\frac{dH}{dT} = \frac{d\varepsilon}{dT} + \frac{d}{dT}(pV)$$

From 1 mole of ideal gas, $pV = RT$

$$\frac{dH}{dT} = \frac{d\varepsilon}{dT} + \frac{d}{dT}(RT)$$

$$\frac{dH}{dT} = \frac{d\varepsilon}{dT} + R$$

using eq (5)

$$C_p = C_v + R$$

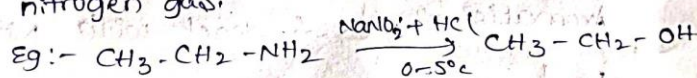
$$\therefore C_p - C_v = R$$

Section B

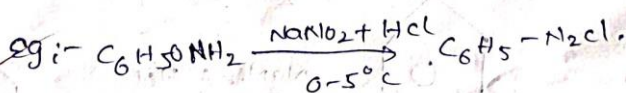
7
(a)
Ans

Amines:- An organic compound derived from ammonia by replacement of one or more hydrogen atoms by organic groups are called amines.

→ primary amines:- Aliphatic primary (1°) amines react with nitrous acid to form alcohols and nitrogen gas.



Aromatic primary amines react with Nitrous acid to form diazonium salt

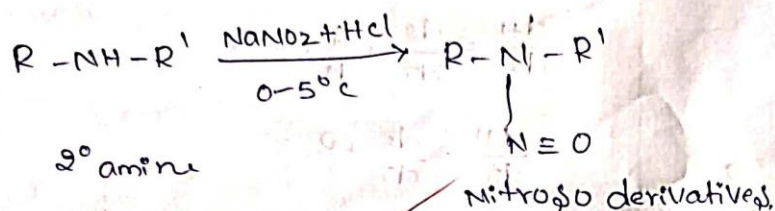


Aniline

Benzene diazonium chloride.

Secondary Amines :-

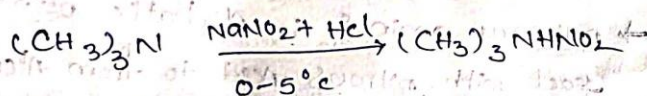
Secondary amines react with Nitrous Acids to form yellow oily product of Nitroso amines.



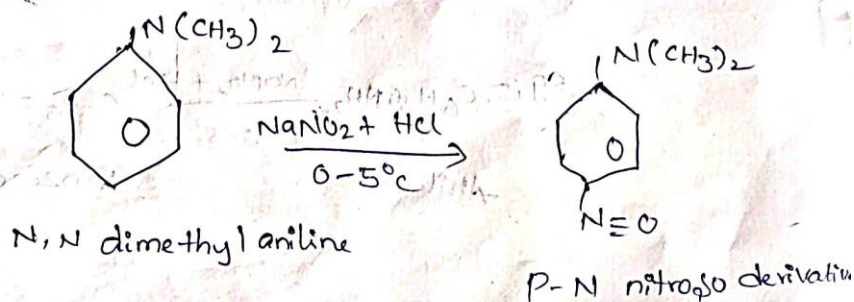
Tertiary amines :-

Tertiary amines react with nitrous Acid to form trialkyl ammonium nitro salts.

which are soluble in water.



Aromatic 3° amines react with Nitrous Acid to form para nitroso derivatives.

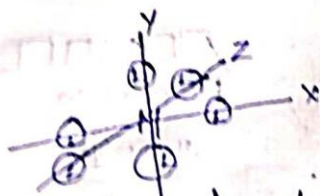


Q. Main postulates of crystal field theory :-

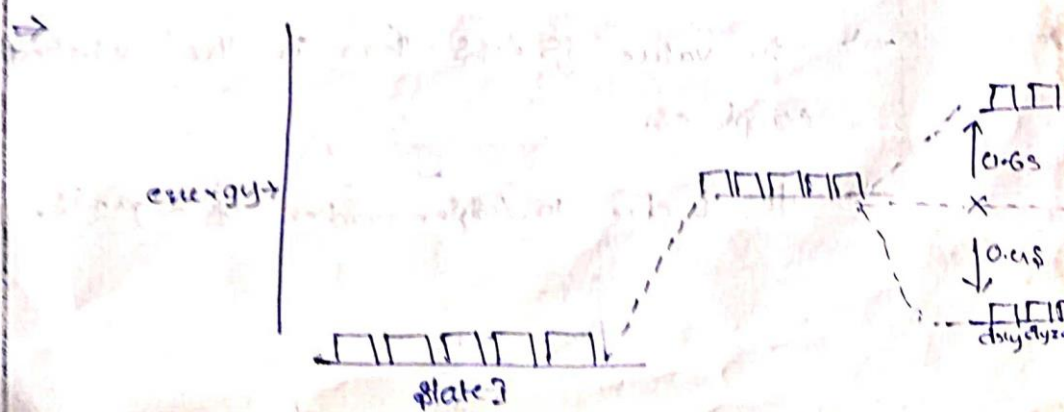
- Ligands like Cl^- , Br^- , I^- , CN^+ , H_2O , NH_3 are treated as point charges.
- There is no interaction between metal orbitals and ligand orbitals.
- The d-orbitals on the metal have the same energy and are called as degenerated orbitals.
- When complex is formed, the ligands destroy the degeneracy of these orbitals.

* Crystal field splitting of d orbitals in octahedral complexes :-

- In an octahedral complex, the metal ion is at the centre and the ligands are at six corners.

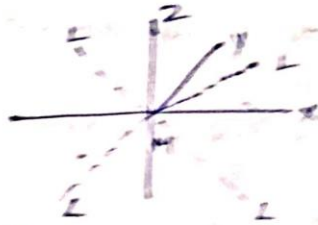


- Now since two of the five d-orbitals ($d_{x^2-y^2}$, $d_{y^2-z^2}$, $d_{z^2-x^2}$) are oriented along the axes, they will be repelled more than the remaining three d orbitals, directed between the axes.

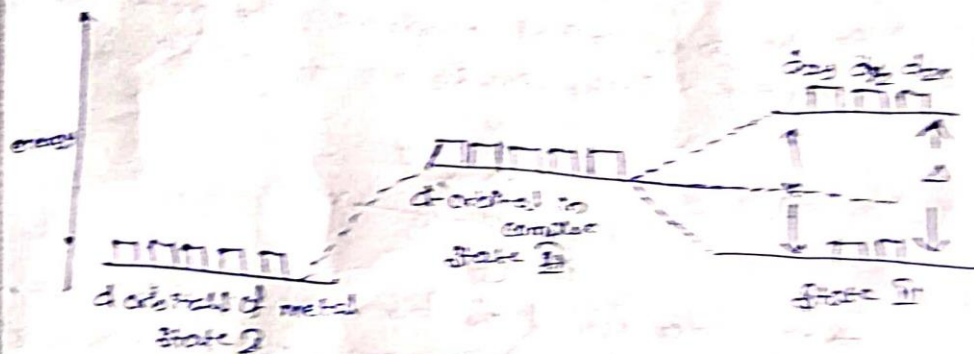


⇒ Crystal field splitting of d orbitals in tetrahedral complexes :-

⇒ In the tetrahedral complex, the metal ion is at the centre and the ligands are at the corners.



⇒ In this complex, the ligand interact more with the t_2 (d_{xy}, d_{yz}, d_{zx}) orbitals pointing close to the direction of the approaching than the e_g ($d_{x^2-y^2}, d_{z^2}$) orbitals lying between the ligands.



⇒ The crystal field splitting is denoted by Δ .

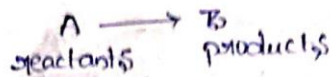
⇒ The value is less than in the octahedral complexes.

⇒ It is due to lesser number of ligands.

9
(a)
Ans

Derive thermodynamically kirchoff's equation.

→ consider a process



→ Heat of reaction of reactants is ΔH_1 at T_1° and heat of reaction of products ΔH_2 at T_2° .

⇒ Molar heat capacity of a reactants at constant pressure is $C_{P(A)}$

⇒ Molar heat capacity of the products at constant pressure is $C_{P(B)}$.

→ The above reactions takes place in two ways.

1st method :-

→ we will convert the reactants into products at T_1° by using of reaction ΔH_1 .

→ After that the temperature of the products increased from T_1° to T_2° by using $C_{P(B)}(T_2 - T_1)$

→ The net heat change in the process $= \Delta H_1 + C_{P(B)}(T_2 - T_1) \rightarrow Q$

2nd method :-

→ first, we will increase the temperature of the reactants from T_1° to T_2° by using $C_{P(A)}(T_2 - T_1)$

→ after that the reactants the heat of reaction ΔH_2 .

→ The net heat change in this process $= \Delta H_2 + C_{P(A)}(T_2 - T_1) \rightarrow Q$

Paper – VI



Tirumala Tirupati Devasthanams Degree & PG Colleges, Tirupati.
S.V. ARTS COLLEGE / S.P.W. COLLEGE / S.G.S. ARTS COLLEGE

Name of the Examination: O. Sreekanth, Internal Date: 13/8/2019
 Name of the Student: O. Sreekanth Exam HT
 Roll No.: 318008244
 Class: B.Sc. Group: M.P.C. Medium: E.M. Subject: Chemistry

No. of Additional sheets used ☐

Paper: VI

Q. Code: 47/50

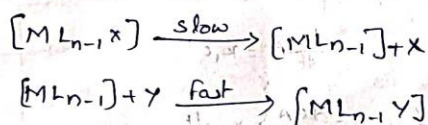
SECTION - B

7a) S_N1 Reactions:-

In these reactions, the complex $[ML_nX]$ dissociates at slow rate in the first step. In this process, the ligand being substituted namely 'X' in the above example comes out.

* This step is called the rate limiting step, or rate determining step.

* In the second step, the ligand 'Y' enters the complex species formed in the first step, at a fast rate.



Hence the rate of reaction is written as

$$\text{rate} \propto [ML_{n-1}X]$$

$$\text{rate} = k_1 [ML_{n-1}X]$$

k_1 = rate constant.

S_N2 Reactions:-

These reactions are called nucleophilic substitution reactions of molecularity two or of second order.

The mechanism of these reactions can be broadly presented as follows.

10

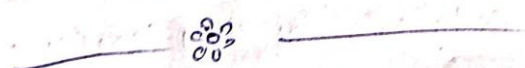


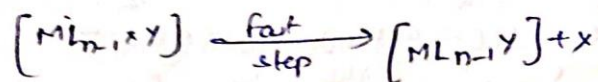
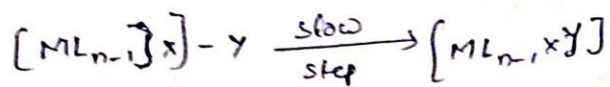
2. The first part of the paper is devoted to the study of the properties of the function $f(x)$ defined by the equation

→ The equation is called as Kirchhoff's equation.

Volume.
 Solution: By using Kirchhoff's equation,

10





So the rate of this reaction is proportional to the product of concentrations of $[ML_{n-1}x]$ as well as that of Y .

$$\text{rate} \propto [ML_{n-1}x][Y]$$

$$\text{rate} = k_2 [ML_{n-1}x][Y]$$

Hence it is a second order reaction.

9. x
S-a) first order reaction

a) The reaction is represented as



b) The rate (r) is proportional to $[A]^1$ (first power)

$$r \propto [A]^1$$

$$r = k_1 [A]^1$$

(c) The equation is also written as

$$-\frac{dc}{dt} = k_1 c$$

$$-\frac{dc}{c} = k_1 dt$$

(d) on integration

$$-\int_0^t \frac{dc}{c} = k_1 \int_0^t dt$$

$$\ln \frac{c_0}{c} = k_1 t$$

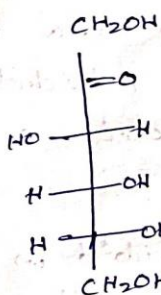
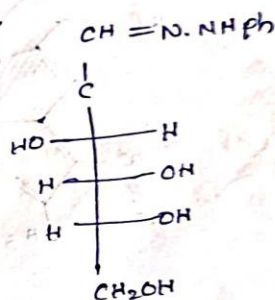
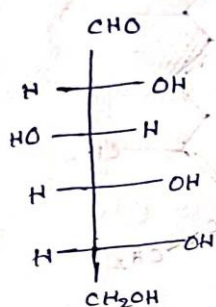
$$k_1 = \frac{1}{t} \ln \frac{c_0}{c}$$

$$k_1 = \frac{2.303}{t} \log \frac{a}{a-x} \frac{c_0}{c}$$

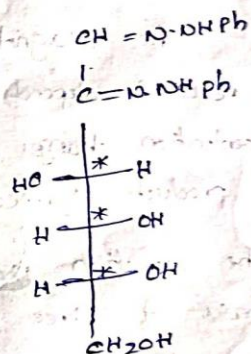
9A) Cyclic structure of fructose

Glucose and fructose formed same type of osazone.

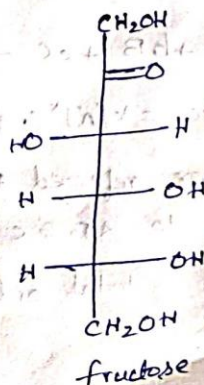
In presence of excess phenyl hydrazine (3 moles). The fructose forms osazone and a comparison with glucose osazone it can be inferred that at C-3, C-4, C-5, same structure is there.



D-fructose



The stars marked carbon atom indicate asymmetric carbon atoms.

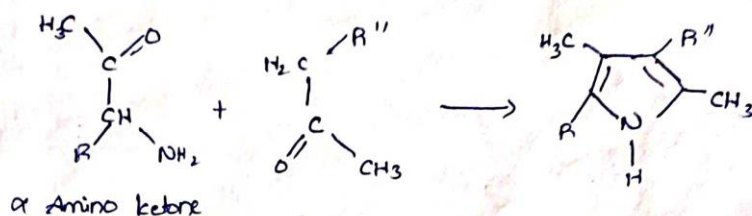


ADDITIONAL SHEET

3A) Paul-Knoor Synthesis:-

* 1,4 dicarbonyl compounds are heated in presence of ammonium carbonate. This results in the cyclization to form pyridine. This is known as Paul-Knoor synthesis.

* By condensation of amino ketone with β -diketone or β -ketoester.



$\text{R}' = -\text{COR}$, β -diketone

$\text{R}'' = -\text{COOC}_2\text{H}_5$, β -ketoester.

4A) Mutarotation:-

* Glucose contained 4 asymmetric or chiral carbon atoms. Hence it exhibited optical activity.

* But it is observed that the specific optical rotation (α) of glucose varied with the method of recrystallization or petrification of glucose as well as with time.

* Glucose recrystallized from hot water melted at -146°C .

10 * The specific optical rotation (α) of this glucose is found to be $(+112.2^\circ)$.

* So the above facts indicate that in one case, the specific rotation decreased from $+112.2^\circ$ to $+52.7^\circ$.

with time and in an other case increased from $(+18.7^\circ)$ to $(+52.7^\circ)$ with time.

* This change of optical rotation with time is called mutarotation.

* This fact could not be explained by the open carbon chain structure of glucose.



SEMESTER-V Paper V & Paper VI

Action taken report on students' examination related grievances:

The grievances received regarding internal examinations were redressed at the departmental level and the resolutions are recorded.

III YEAR, V SEM, MPC (TM &EM) PAPER V

S.No	H.T.No	Name of the student	Internal-I (out of 50M)
1	0318008195	V. Ajith Kumar	40
2	0318008197	K. Chandu	35
3	0318008198	T. Chiranjeevi	30
4	0318008199	M. Ganesh	40
5	0318008201	C. Gnana Sekhar	30
6	0318008203	Y. Hanumatnahu	45
7	0318008204	B. Hari Prasad	35
8	0318008205	P. Hemanath	45
9	0318008206	Y. Hemanth Kumar	50
10	0318008207	A.K. Jagadeesh	50
11	0318008208	P. Mahesh	45
12	0318008211	M. Mahesh	35
13	0318008212	V. Mahesh Babu	40
14	0318008213	M. Mallikarjuna	35
15	0318008214	K. Muni Kumar	45
16	0318008215	V. Murali	50
17	0318008216	P. Mnagaraju	50
18	0318008217	BV. Nageswara	40
19	0318008218	S. Nanda Kumar	30
20	0318008220	J. Newtron	35
21	0318008221	P. Pavan Kalyan	50
22	0318008222	V. Pavan Kalyan Naik	45
23	0318008223	D. Pameela	50
24	0318008225	M. Prasanth	45
25	0318008229	B. Rajesh	30
26	0318008230	M. Rajesh Naik	35
27	0318008233	M. Rakesh	30
28	0318008235	P. Ravi Shankar	50
29	0318008237	M. Sai Radhakrishna	40
30	0318008240	P. Sivakumar Reddy	35
31	0318008244	O. Sreekanth	40
32	0318008246	P. Sudheer	35
33	0318008247	N. Suman	45
34	0318008248	T. Sumanth Naidu	30
35	0318008249	A. Venkatesh	45
36	0318008251	P. Vinod Kumar	40

37	317008009	B.LOKESH	35
----	-----------	----------	----

CBZ (TM)

S.No	H.T.No	Name of the student	Internal-I (out of 50M)
1	318008038	S. Balaji Naik	AB
2	318008039	M. Dhanaraj	50
3	318008041	B. Hari Krishna	45
4	318008045	K. Mahesh	40
5	318008046	M. Passavithra	35
6	318008048	K. Raghavendra	50
7	318008049	T. Revathi	45
8	318008050	P. Sai	45
9	318008052	B. Sravani	45
10	318008054	G. Suman	45
11	318008055	E. Suri	50
12	318008057	M. Venkatesh	45
13	318008058	V. Venkatesh	40
14	318008060	K. Vikram	45

MZC (EM)

S.No	H.T.No	Name of the student	Internal-I (out of 50M)
1	318008254	A. Balaji	50
2	318008256	B. Venkatesh	50
3	318008257	B. Mohan Naik	40
4	318008258	B. Anwarlar Hussain	30
5	318008259	C. Gayathri	30
6	318008260	P. Devendra Goud	50
7	318008261	S. Dileepass	50
8	318008263	G. Jaya Kumar	50
9	318008264	K. Passoojitha	50
10	318008265	K. Vamsi	30
11	318008266	S. Manikanta	50
12	318008267	SK. Mazeed Babu	45
13	318008268	N. Passraveen Naik	45
14	318008270	P. Rakesh Naik	45
15	318008271	P. Srinivasulu	45
16	318008274	G. Passandu Ranga	45
17	318008276	P. Deva	35
18	318008279	M. Ramesh	35
19	318008280	K. Sandeep Kumar	45

20	318008282	K. Sharifal Basha	35
21	318008283	M. Sreedhar	50
22	318008284	T. Akash	30
23	318008285	M. Vamsi Krishna Naik	45
24	318008286	V. Passrem	50
25	318008287	B. Venkatasubbaiah	45
26	318008288	A. Venkata Sai	45
27	318008289	B. Yugandhar	40

BBC (EM)

S.No	H.T.No	Name of the student	Internal-I (out of 50M)
1	318008143	T.AVINASH	45
2	318008145	K.BAGYA LAKSHMIS.GANGADHAR	45
3	318008146	S.GANGADHAR	35
4	318008147	M.GAYATRI	40
5	318008148	S.GIRISH KUMAR	50
6	318008150	E.GOPINADH GOUD	35
7	318008154	P.JAHNAVII	50
8	318008155	M.JITESH	45
9	318008156	G.KIRAN KUMAR	30
10	318008158	M.KOTESWAR RAO	45
11	318008159	M.KUSUMA PPRIYA	45
12	318008160	C.LOKESH	30
13	318008161	C.MADHU MOJHAN	30
14	318008163	G.,MAHESH	40
15	318008164	G.MAHESH	30
16	318008165	V.MAHESH BABU	35
17	318008166	S.MUNI KUMAR	40
18	318008167	P.NITESH KUMAR	40
19	318008169	C.PAVAN KUMAR	35
20	318008171	D.PRADEEP KUMAR	35
21	318008173	R.PRIYANKA	30
22	318008174	P.VAMSIDHAR REDDY	35
23	318008176	C.RENUKA	35
24	318008177	G.SARITHA	40
25	318008179	K.SIVA	35
26	318008181	K.SREENIVASULU	40
27	318008184	M.SUNIL KUMAR	30
28	318008186	P.SWATHI PRIYA	30
29	318008187	K.TIRUMALLESH	40
30	318008189	K.UMA	35
31	318008190	.VENKATESH	45
32	318008191	J.VENKATESH	40
33	318008193	V.VISHNU VARDHA	35

31	318008190	.VENKATESH	45
32	318008191	J.VENKATESH	40
33	318008193	V.VISHNU VARDHA	35


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CBZ (TM)

S.No	H.T.No	Name of the student	Internal-1 (out of 50M)
1	318008038	S. Balaji Naik	
2	318008039	M. Dhanaraj	35
3	318008041	B. Hari Krishna	40
4	318008045	K. Mahesh	45
5	318008046	M. Passavithra	50
6	318008048	K. Raghavendra	35
7	318008049	T. Revathi	45
8	318008050	P. Sai	50
9	318008052	B. Sravani	40
10	318008054	G. Suman	45
11	318008055	E. Suri	50
12	318008057	M. Venkatesh	30
13	318008058	V. Venkatesh	45
14	318008060	K. Vikram	40

MZC (EM)

S.No	H.T.No	Name of the student	Internal-1 (out of 50M)
1	318008254	A. Balaji	
2	318008256	B. Venkatesh	35
3	318008257	B. Mohan Naik	45
4	318008258	B. Anwarlar Hussain	30
5	318008259	C. Gayathri	40
6	318008260	P. Devendra Goud	50
7	318008261	S. Dileepass	45
8	318008263	G. Jaya Kumar	50
9	318008264	K. Passoojitha	40
10	318008265	K. Vamsi	40
11	318008266	S. Manikanta	40
12	318008267	SK. Mazeed Babu	35
13	318008268	N. Passraveen Naik	20
14	318008270	P. Rakesh Naik	35
15	318008271	P. Srinivasulu	45
16	318008274	G. Passandu Ranga	45
17	318008276	P. Deva	45
18	318008279	M. Ramesh	30
19	318008280	K. Sandeep Kumar	35
20	318008282	K. Sharifal Basha	40
21	318008283	M. Sreedhar	50
22	318008284	T. Akash	35
23	318008285	M. Vamsi Krishna Naik	45

24	318008286	V. Passrem	45
25	318008287	B. Venkatasubbaiah	40
26	318008288	A. Venkata Sai	30
27	318008289	B. Yugandhar	45

BBC (EM)

S.No	H.T.No	Name of the student	Internal -I (out of 50M)
1	318008143	T.AVINASH	
2	318008145	K.BAGYA	50
3	318008146	S.GANGADHAR	45
4	318008147	M.GAYATRI	30
5	318008148	S.GIRISH KUMAR	45
6	318008150	E.GOPINADH GOUD	40
7	318008154	P.JAHNAVII	45
8	318008155	M.JITHESH	45
9	318008156	G.KIRAN KUMAR	30
10	318008158	M.KOTESWAR RAO	50
11	318008159	M.KUSUMA PPRIYA	50
12	318008160	C.LOKESH	30
13	318008161	C.MADHU MOJHAN	35
14	318008163	G,MAHESH	35
15	318008164	G.MAHESH	35
16	318008165	V.MAHESH BABU	35
17	318008166	S.MUNI KUMAR	35
18	318008167	P.NITHESH KUMAR	35
19	318008169	C.PAVAN KUMAR	30
20	318008171	D.PRADEEP KUMAR	30
21	318008173	R.PRIYANKA	25
22	318008174	P.VAMSIDHAR REDDY	30
23	318008176	C.RENUKA	35
24	318008177	G.SARITHA	40
25	318008179	K.SIVA	30
26	318008181	K.SREENIVASULU	35
27	318008184	M.SUNIL KUMAR	40
28	318008186	P.SWATHI PRIYA	30
29	318008187	K.TIRUMALLESH	35
30	318008189	K.UMA	30
31	318008190	.VENKATESH	40
32	318008191	J.VENKATESH	30
33	318008193	V.VISHNU VARDHA	35

24	318008286	V. Passrem	45
25	318008287	B. Venkatasubbaiah	40
26	318008288	A. Venkata Sai	30
27	318008289	B. Yugandhar	45

BBC (EM)

S.No	H.T.No	Name of the student	Initial	1	out of 50
1	318008143	T.AVINASH			
2	318008145	K.BAGYA LAKSHMIS.GANGADHAR		50	
3	318008146	S.GANGADHAR		45	
4	318008147	M.GAYATRI		30	
5	318008148	S.GIRISH KUMAR		45	
6	318008150	E.GOPINADH GOUD		40	
7	318008154	P.JAHNAVII		45	
8	318008155	M.JITHESH		45	
9	318008156	G.KIRAN KUMAR		30	
10	318008158	M.KOTESWAR RAO		50	
11	318008159	M.KUSUMA PPRIYA		50	
12	318008160	C.LOKESH		30	
13	318008161	C.MADHU MOJHAN		35	
14	318008163	G.,MAHESH		35	
15	318008164	G.MAHESH		35	
16	318008165	V.MAHESH BABU		35	
17	318008166	S.MUNI KUMAR		35	
18	318008167	P.NITESH KUMAR		35	
19	318008169	C.PAVAN KUMAR		30	
20	318008171	D.PRADEEP KUMAR		30	
21	318008173	R.PRIYANKA		25	
22	318008174	P.VAMSIDHAR REDDY		30	
23	318008176	C.RENUKA		35	
24	318008177	G.SARITHA		40	
25	318008179	K.SIVA		30	
26	318008181	K.SREENIVASULU		35	
27	318008184	M.SUNIL KUMAR		40	
28	318008186	P.SWATHI PRIYA		30	
29	318008187	K.TIRUMALLES		35	
30	318008189	K.UMA		30	
31	318008190	.VENKATESH		40	
32	318008191	J.VENKATESH		30	
33	318008193	V.VISHNU VARDHA		35	


 PRINCIPAL
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 TIRUPATI

2019-2020

Grievance Redressal Committee

Convener : **Dr. C. Ramesh (PRINCIPAL)**
Co-Convener : **Sri .A. Madhusudana Rao (VICE PRINCIPAL)**
Members : **ALL HOD's and Class Teachers**

Heads of Departments

Sno	Name of the HOD	Department
1	Sri . S. N .Shameer	Zoology
2	T. Sakuntala	Botany
3	Dr. B. Sathyanarayana	Chemistry
4	Dr . Y. Mallikarjuna Rao	Commerce
5	Sri P. Udaya	Computer Science
6	Sri .E .Vijayabhaskar	Economics
7	Dr .V .Madhu kumar	English
8	T. Sakuntala	Environmental Science
9	Dr. N. Jagadeesh kumar	Hotel Management
10	Sri .A. Madhusudana Rao	History
11	Sri. P. Munibhaskara Rao	Mathematics
12	Smt. V. Venkata Lakshmi	Microbiology
13	Dr . K. Ravindranath Reddy	Physics
14	Sri .K. Bhaskaran	Political Science
15	Dr. D. Chandrakesavulu Naidu	Statistics
16	Dr .M .Madanna	Telugu


PRINCIPAL
S.G.S. ARTS COLLEGE
TIRUPATI

Class Teachers

S.No:	Course and Group	Name of The Class Teacher
	B.Sc- First Year	
1	MPC(EM)	Smt M. Prada
2	MPCs(EM)	Smt N. Jayalakshmi
3..	MPS(EM)	Dr P. Latha
4	CBZ(TM)	Dr P. Latha
5	MZC(EM)	Dr B. Ravi
6	BBC(EM)	Dr P. Saritha
7	MScs(EM)	Smt B.Triveni
8	CT &HM(EM)	Sm tPriya Singh
	B.A -First Year	
1	HEP(TM)	Sri K. Pratap
2	HEP(EM)	SriB.Ajad Chandrashekhar
3	HPT(TM)	Dr J. Kondal Rao
4	MES(EM)	Dr. J.KondalRao
5	ASCA(EM)	DrM.Vasudeva Reddy
	B.com -First Year	
1	CA(EM)	Sri P. Harish Reddy
2	GEN(EM)	Dr M. Manjula
3	GEN(TM)	Dr. P.Madhusudhan Rao


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Class Teachers

S.No:	Course and Group	Name of Class Teacher
B. Sc.- Second Year		
1	MPC(TM)	Smt. K. Revathi
2	MPC(EM)	B .VenkataChalapathi
3	MPCS(EM)	Dr. K Koteswaraiah
4	MPS(EM)	Dr. K .Venkatesh
5	CBZ(TM)	Dr. P .Sivakumar
6	MZC(EM)	Dr. R .Saritha
7	BBC(EM)	Dr . D. Sudhakar
8	MScs(EM)	Sri D. Chaitanya Kumar
9	CT &HM(EM)	Smt M. Prada
B.A - Second Year		
1	HEP(TM)	DrK .Narasimhulu
2	HEP(EM)	Sri B. AjadChandrashekhar
3	HPT(TM)	DrS .VasanthaKumari
4	MES(EM)	DrP .Sivakumar
5	ASCA(EM)	Sri V. Kamalanathan
B.com -Second Year		
1	CA(EM)	SmtC .Divya
2	GEN(EM)	DrA .Seshadri
3	GEN(TM)	DrA .VenkataRamanna


PRINCIPAL
S.G.S. ARTS COLLEGE
TIRUPATI

Class Teachers

S.No:	Course and Group	Name of the Class Teacher
B.Sc. - Third Year		
1	MPC(TM)	Dr P. Suguna
2	MPC(EM)	Sri I .RomeswarRao
3	MPCs(EM)	Dr. P. GiriPrakash
4	CBZ(TM)	Dr. P .Suguna
5	MZC(EM)	Dr. K .Sridevi
6	BBC(EM)	P .M .Ravi Kumar
7	MScs(EM)	Dr K Vijay Kumar
8	CT &HM(EM)	SmtPriya Singh
B.A -Third Year		
1	HEP(TM)	Sri K. Rajesh
2	HEP(EM)	Dr K. Narasimhulu
3	HPT(TM)	Dr S. VasanthaKumari
4	MES(EM)	M. Vasudeva Reddy
5	ASCA(EM)	Sri V. Kamalanathan
B.com -Third Year		
1	CA(EM)	Sri P. Chandraiah
2	GEN(EM)	Dr T.L. Narasimha Reddy
3	GEN(TM)	Dr M. Ravi Prasad


PRINCIPAL
S.G.S. ARTS COLLEGE
TIRUPATI

Academic year 2020-2021

Grievance Redressal Cell

Convener : **Dr. C. Mani (PRINCIPAL)**
Co-Convener : **Dr. Y. Mallikarjuna Rao (VICE PRINCIPAL)**
Members : **ALL HOD's and Class Teachers**

Heads of Departments

S.No	Name of the HOD	Department
1	Sri . S. N .Shameer	Zoology
2	T. Sakuntala	Botany
3	D.Parameswara	Chemistry
4	Dr . Y. Mallikarjuna Rao	Commerce
5	Sri P. Udaya	Computer Science
6	Sri .E .Vijayabhaskar	Economics
7	Dr .V .Madhu kumar	English
8	T. Sakuntala	Environmental Science
9	Dr. N. Jagadeesh kumar	Hotel Management
10	Sri .A. Madhusudana Rao	History
11	Sri. P. Munibhaskara Rao	Mathematics
12	Smt. V. Venkata Lakshmi	Microbiology
13	Dr . K. Ravindranath Reddy	Physics
14	Sri .K. Bhaskaran	Political Science
15	Dr. D. Chandrakesavulu Naidu	Statistics
16	Dr .M .Madanna	Telugu


PRINCIPAL
S.G.S. ARTS COLLEGE
TIRUPATI

Class Teacher:: I YEAR

S.No:	Name of the Teacher	Course and Group
1	Smt M. PRADA	MPC(EM)
2	Smt N. JAYALAKSHMI	MPCs(EM)
3	Dr.K.Venkatesh	MPS(EM)
4	Dr P. LATHA	CBZ(TM)
5	Dr B. RAVI	MZC(EM)
6	Dr P. SARITHA	BBC(EM)
7	Smt B.TRIVENI	MScs(EM)
8	Smt PRIYA SINGH	CT &HM(EM)
9	Sri K. PRATAP	HEP(TM)
10	SriB. AJAD CHANDRASHEKHAR	HEP(EM)
11	Dr J. KONDAL RAO	HPT(TM)
12	Dr. J.KONDAL RAO	MES(EM)
13	DrM.VASUDEVAREDDY	ASCA(EM)
14	Sri P. HARISH REDDY	B.ComCA(EM)
15	Dr M. MANJULA	B.Com (EM)
16	DrP.MADHUSUDHANRAO	B.ComGEN(TM)


PRINCIPAL
S.G.S. ARTS COLLEGE
TIRUPATI

Class Teacher: IIYEAR

S.No:	Name of the Teacher	Course and Group
1	Smt. K. REVATHI	MPC(TM)
2	B . Venkata Chalapathi	MPC(EM)
3	Dr. K KOTESWARAIAH	MPCS(EM)
4	Dr. K . VENKATESH	MPS(EM)
5	Dr.P.Latha	CBZ(TM)
6	Dr. R . SARITHA	MZC(EM)
7	Dr . D. SUDHAKAR	BBC(EM)
8	Sri D. Chaitanya Kumar	MSCs(EM)
9	Smt M. PRADA	CT &HM(EM)
10	Dr K . NARASIMHULU	HEP(TM)
11	Sri B. Ajad Chandrashekhar	HEP(EM)
12	Dr S . Vasantha Kumari	HPT(TM)
13	Dr P . SIVAKUMAR	MES(EM)
14	Sri V. Kamalanathan	ASCA(EM)
15	Smt C . DIVYA	B.ComCA(EM)
16	T.L.Narasimha Reddy	B.ComGEN(EM)
17	Dr.M.Ravi Prasad	B.ComGEN(TM)


PRINCIPAL
S.G.S. ARTS COLLEGE
TIRUPATI

Class Teacher:: IIIYEAR

S.No:	Name of the Teacher	Course and Group
1	Dr P. SUGUNA	MPC(TM)
2	Sri I .Romeswar Rao	MPC(EM)
3	Dr. P. Giri Prakash	MPCs(EM)
4	Dr. P . SUGUNA	CBZ(TM)
5	Dr. K . SRIDEVI	MZC(EM)
6	P .M . RAVI KUMAR	BBC(EM)
7	Dr K VIJAY KUMAR	MSCs(EM)
8	Smt PRIYA SINGH	CT &HM(EM)
9	Sri K. RAJESH	HEP(TM)
10	Dr K. NARASIMHULU	HEP(EM)
11	Dr S. VASANTHA KUMARI	HPT(TM)
12	M. VASUDEVA REDDY	MES(EM)
13	Sri V. Kamalanathan	ASCA(EM)
14	Sri P. CHANDRAIAH	B.ComCA(EM)
15	Dr.T.L.Narasimha Reddy	B.ComGEN(EM)
16	Dr M. RAVI PRASAD	B.ComGEN(TM)


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