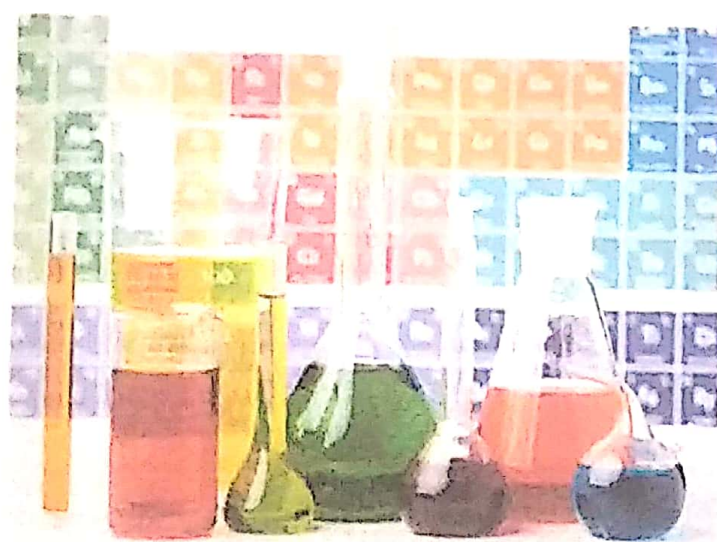


**GOVERNMENT DEGREE COLLEGE  
BHADRACHALAM**

**BHADRADRI KOTHAGUDEM DISTRICT,  
TELANGANA STATE**



**DEPARTMENT OF CHEMISTRY**



**FIELD TRIP 2021-2022**



Factory : SARAPAKA - 507 128,  
Bhadradi Kothagudom District. (TELANGANA),  
Fax No.: +91-8746 - 242460  
Telephone : +91-8746 - 242331 - 40  
www.itcpspd.com

Dt: 10<sup>th</sup> June' 2022

To  
The Principal  
Govt. Degree & PG College  
Bhadrachalam

Sub: Govt. college students visit to ITC Bhadrachalam


Students of 40 Members of B.sc group of Govt. Degree college, Bhadrachalam, Bhadradi Kothagudem (Dist.) accompanied by their faculty members are permitted to visit ITC Limited, Sarapaka on account of their filed trip on 04.06.2022 with necessary precautions during their visit.

During their visit students are disciplined and show them spirit towards understanding basics.

Thanking you,

Yours faithfully,

For ITC Limited – PSPD,  
Bhadrachalam Unit.

  
D Chengal Rao  
Chief Manager – Admin

Encl: Request letter along with list of students



**GOVERNMENT DEGREE COLLEGE  
BHADRACHALAM-507111  
BHADRADRI KOTHAGUDEM DIST**

PHONES: 08643-232269, 234865 MOBILE: +91 9440556598



From  
The Department of Chemistry  
Government Degree College  
Bhadrachalam

To  
The Principal  
Government Degree College  
Bhadrachalam

Respected Sir,

Sub: - Field Trip for Final Year B.Sc Students - Seeking permission - Request - Reg.

With reference to the subject cited above, I would like to bring the following request to your kind consideration. The final year B.Sc Students of our college have to undergo the Field Trip / Field Visit in the course curriculum. In this regard, the Department of Chemistry is planning to conduct a Field Trip / Field Visit to **ITC Limited, Sarapaka.**

Hence, I request your good self to permit us for the same.

Thanking you sir,

Yours Sincerely

incharge Dept. of  
Chemistry

Place :: Bhadrachalam

Dated:30-05-2022

permitted

Principal

Govt. Degree College  
Bhadrachalam-507 111,  
Bhadradi Kothagudem Dist.

## STAFF ACCOMPANYING THE STUDENTS

1	Sri D.Bhadraiah	Principal
2	Sri D.Veeranna	Assistant Professor in Chemistry
3	Sri S.Syam Prasad	Assistant Professor in Botany
4	Smt.V.Ragha Suma	Lecturer in Chemistry
5	Sri B.Venkateswara Rao	Lecturer in Physics
6	Smt.N.Naga Sameera	Lecturer in Botany

### డిగ్రీ విద్యార్థుల క్షేత్రస్థాయి పర్యటన

భద్రాచలం పట్టణం, న్యూస్టుడె: భద్రాచలం డిగ్రీ కళాశాలకు చెందిన ప్రథమ, ద్వితీయ, తృతీయ ఏడాదికి చెందిన రసాయన శాస్త్రం అభ్యసించే విద్యార్థులు అధ్యాపకులతో కలిసి ఐటీసీ పేపరు కర్మాగారంలో శనివారం పర్యటించారు. ఈ సందర్భంగా కలప నుంచి పేపరు గుడ్లు, పేపరు గుడ్లు నుంచి పేపరు తయారీ వరకు ఉన్న వివిధ దశలను విద్యార్థులకు ఐటీసీ అధికారులు క్షుణ్ణంగా వివరించారు. పేపరు తయారీలో వివిధ దశలు, తయారీలో వినియోగించే రసాయనాలు, సాంకే



ఐటీసీ పేపరు కర్మాగారంలో వివరాలు తెలుసుకుంటున్న విద్యార్థులు

తిక పరిశ్రానే వంటి విషయాలపై విద్యార్థులకు అవగాహన కల్పించారు. ఐటీసీ కర్మాగారాన్ని సందర్శించిన విద్యార్థులు కళాశాల ప్రిన్సిపల్ భద్రయ్య, విభాగాధిపతి వీరస్వామి ప్రొబ్లెమ్ తయారు చేసి రిపోర్టు అందజేశారు. ఐటీసీ క్షేత్రస్థాయి సందర్శన విద్యార్థులకు ఎంతో ఉపయోగపడుని ప్రిన్సిపల్ భద్రయ్య పేర్కొన్నారు.



CA



1

# Quiz

## Department of Chemistry

DT: 17.11.21

Govt. Degree College, Bhadrachalam

Department of Chemistry has

Organised Quiz for I B.Sc

Students on 17-11-21.

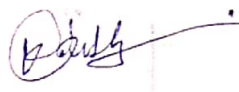

The Quiz Programme has questions from Organic, Inorganic and Physical Chemistry.

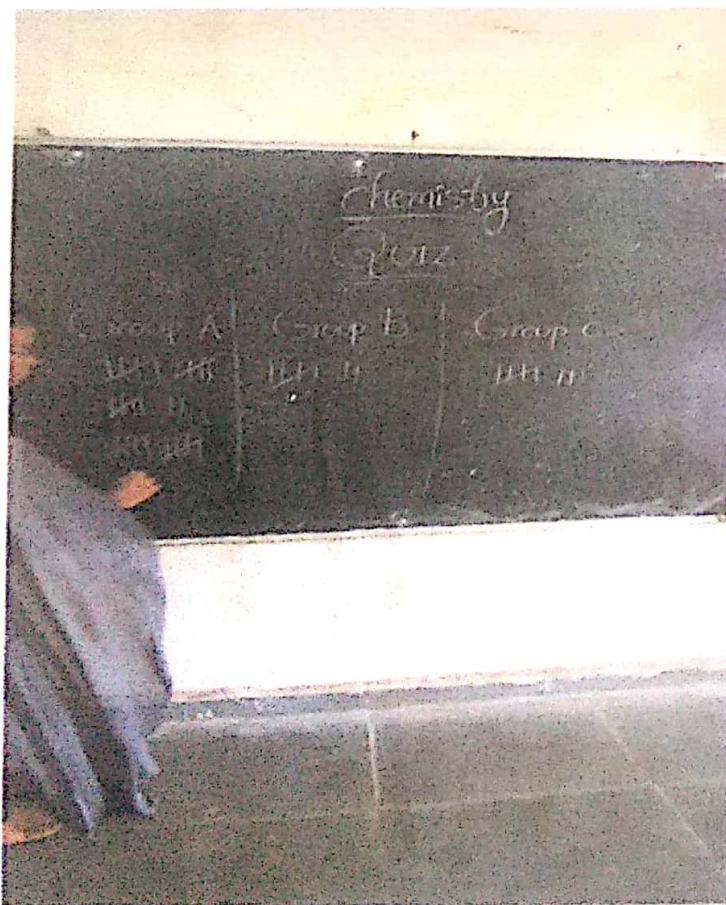
The programme is conducted with five teams and 5 rounds of questions, each from getting 10 questions to answer. The Unanswered question will not be Passed to the next team.

Sri. D. Bhadraiah.

Incharge

# Team - A

S.No	Name	Roll No.	Group	Signature
1.	M. Aruna	03318-3027	BZC	v. Aruna
2.	R. Kavitha	03318-3003	BZC	
3.	CH. Vasantha	03318-3008	BZC	Vasantha
4.	D. Megana	03318-3010	BZC	Megana
5.	G. Sarika	03318-3011	BZC	



Total Marks Awarded						
	Round-1	Round-2	Round-3	Round-4	Round-5	Total
Team-A	2	2	2	1	2	9
Team-B	2	2	0	0	2	6
Team-C	2	0	2	2	2	8
Team-D	2	2	2	0	1	7
Team-E	0	2	1	2	2	7

Winning Team : Team-A



2021-22

Student Assigned

Name :- ch. Nargya

Grade :- B. Zc 1<sup>st</sup> year

Roll No :- 033-22-3009

1) Based on the oxygen content, oxides are classified into 4 types.

1. Normal oxides
2. poly oxides
3. sub oxides
4. mixed oxides

1. Normal oxides :-

Normal oxides contains just as much oxygen as their normal valency permits with only  $m-O$  bonds.

Ex:-  $Na_2O$ ,  $MgO$ ,  $Al_2O_3$ ,  $CaO$ ,  $CO_2$ ,  $N_2O$ ,  $H_2O$ ,  $SO_3$  etc.

2) poly oxides :- (super oxides)

→ These oxides contains  $O_2^{(-)}$  ions with selection bond and coloured, Ex:-  $KO_2$ ,  $AlO_2$ ,  $CSO_2$

→ super oxides on reacting with  $H_2O$  and  $O_2$  gives  $2KOH + H_2O_2 + O_2$

3) suboxides :-

→ These oxides contains less oxygens than the normal valency permits and they contains  $m-m$  and  $m-o$  bonds.

Ex:  $\text{N}_2\text{O}$ ,  $\text{C}_3\text{O}_2$  (carbon sub oxide)  
 $\text{O}=\text{C}=\text{C}=\text{C}=\text{O}$  linear and unstable

4) Mixed oxides := (spinel)

→ mixed oxides are made up two spinel oxides.  
 These are also called, "spinel"  
 Ex :=  $\text{Fe}_3\text{O}_4$ ,  $\text{Pb}_3\text{O}_4$ ,  $\text{Mn}_3\text{O}_4$ ,  $\text{Co}_3\text{O}_4$  etc.

② Interhalogen compounds :=

→ Each halogen can combine with other halogens under suitable condition to form a new type compounds known as inter halogen compounds.

→ General formula of inter halogen compounds is  $\text{Ax}_n$   
 (where  $n = 1, 3, 5, 7$ ) A = less EN halogen.

Structure of  $\text{Ax}_3$  type :=  $\text{ClF}_3$ ,  $\text{BrF}_3$ ,  $\text{IF}_3$ ,  $\text{ICl}_3$

Ground state — A —  $ns^2 np^5 nd^0$   
 1st excited state — A —  $ns^2 np^4 nd^1$



→ In 1st excited state, central 'A' undergoes  $sp^3d$  hybridization contains 3 unpaired electrons and 2 lone pairs. Hence forms 3 bonds with 3 more EN halogen atoms.

## CLASS ROOM SEMINAR - 4

Date: 8-12-2021

→ No. of students participated:

→ Name of the student: Dharm Raj

→ Group: J-MPC (B.Sc)

→ Name of the topic: Metallocenes.

→ Duration: 20 minutes

→ signature of the student:

→ Name of the student: Suaropa

→ Group: MPC-III (B.Sc)

→ Name of the topic:

→ Duration: 20 minutes

→ Sig. of the student:

→ Questions raised by the students.

→ Evaluation : 1)

2)

