GOVERNMENT DEGREE COLLEGE RAMPACHODAVARAM ALLURI SEETHA RAMA RAJU DISTRICT DEPARTMENT OF CHEMISTRY

QUIZ

2017-2022

YEAR	NO.OF	DATE	CLASS	TOPIC
	QUIZ			
2017-18	1	20-02-2018	I,II&IIIMPC	Chemical bonding
2018-19	1	15-02-2019	I,II,&IIIMPC ,BZC	Group-13 Elements
2019-20	1	26-02-2020	I,II,&III MPC ,BZC	Carbohydrates
2020-21	1	25-02-2021	I,II,&III MPC,BZC	Group-14 Elements
2021-22	1	17-02-2022	I,II,&III MPC,BZC	General Chemistry

GOVERNMENT DEGREE COLLEGE RAMPACHODAVARAM ALLURI SEETHA RAMA RAJU DISTRICT

DEPARTMENT OF CHEMISTRY

QUIZ COMPETITION FOR I,II,III B.Sc

2017-2018

REPORT ON STUDENT QUIZ -I,II,III- B.Sc

The Department of Chemistry Conducted a student Seminar for the students of II B.Sc mpc Students on 20-02-2018. The topic For the QUIZ was Chemical Bonding .

Majority of the students from I B.Sc II B.Sc III B.Sc were attended for the QUIZ. The topic was enlightened and informative to the students. Few Students have asked questions related to the topic. After the completion of seminar feed back was also Collected from the students. TO
THE PRINCIPAL,
GOVT.DEGREE COLLEGE,
RAMPACHODAVARAM.

RAMPACHODAVARAM, 10-02-2018.

Respected Sir,

SUB: Seeking permission to conduct student seminars for the year 2017-18 Req reg.

I S.Swarna Latha, Lecturer in chemistry, Govt. Degree College, Rampachodavaram, planned to conduct student seminars for the year 2017-18 for I, II, III B.Sc[MPC] classes.

So kindly grant me permission to conduct seminars.

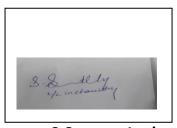
Thanking you sir.

Yours faithfully



CIRCULAR

The Department of Chemistry is going to be conducted a student Quiz on 20-02-2018. All the students must attend the Quiz in The chapter Chemical bonding Chemistry Lab Room:17 without fail



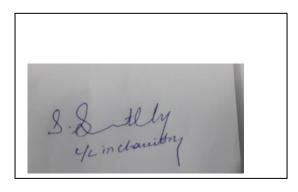
S.Swarna Latha

Lecturer in Chemistry

GOVERNMENT DEGREE COLLEGE RAMPACHODAVRAM

DEPARTMENT OF CHEMISTRY REPORT ON QUIZ PROGRAMME

The Department Of Chemistry has conducted an inter group quiz programme on 20-02-2018. It was a 3 stage competition which covered the areas of In-Organic, Organic and Physical chemistry. There were a total 4 teams. Every team had six members from first, second and third year of students. The programme was started at 11:00AM. The Judging panel consists of two judges Sri JEJIBABU Lecturer in COMMERCE and G. LAKSHMI KUMARI LECTURER in Political Science. In the first round the questions were asked from the in-Organic chemistry The winners of this round was team A. Second round questions were asked from Organic chemistry. The winners of this round was team C. In the third round the competition. Over all this inter group quiz competition was a huge triumph. College principal Dr.V.Srinivasa Rao congratulated the winners.



- 1 . Isostructural species are those which have the same shape and hybridisation. Among the given species identify the isostructural pairs.
- (i)[NF3 and BF3]
- (ii) [BF4 and NH4 +]
- (iii) [BCl3 and BrCl3]
- (iv) [NH3 and NO3]
- 2. Polarity in a molecule and hence the dipole moment depends primarily on electronegativity of the constituent atoms and shape of a molecule. Which of the following has the highest dipole moment?
 - (i) CO₂
 - (ii) HI
 - (iii) H₂O
 - (iv) SO₂
- 3.The types of hybrid orbitals of nitrogen in NO^+ , NO^- and NH^+ respectively are

expected to be

- (v) sp, sp^3 and sp^2
- (vi) sp, sp^2 and sp^3
- (vii) sp^2 , sp and sp^3
- (viii) sp^2 , sp^3 and sp
- 4.Hydrogen bonds are formed in many compounds e.g., $\rm H_2O$, HF, $\rm NH_3$. The boiling point of such compounds depends to a large extent on the strength of hydrogen bond and the number of hydrogen bonds. The correct decreasing

order of the boiling points of above compounds is:

- (ix) $HF > H_2O > NH_3$
 - (x) $H_2O > HF > NH_3$
 - (xi) $NH_3 > HF > H_2O$
 - (xii) $NH_3 > H_2O > HF$
- 5.In PO³⁻ ion the formal charge on the oxygen atom of P-O bond is
 - (i) + 1
 - (ii) 1
 - (iii) -0.75
 - (iv) + 0.75
- 6.In NO⁻ ion, the number of bond pairs and lone pairs of electrons on nitrogenatom are
 - (i) 2, 2
 - (ii) 3, 1
 - (iii) 1, 3
 - (iv) 4, 0





7. Which of the following species has tetrahedral geometry?

(xiii) BH₄

(xiv) NH₂

(xv) CO_3^{2-}

(xvi) H₃O⁺

8.Number of π bonds and σ bonds in the following structure is–

(i)	6,	19

9. Which molecule/ion out of the following does not contain unpaired electrons?

(xix)
$$O_2^{2-}$$

$$(xx)$$
 B_2

10.In which of the following molecule/ion all the bonds are **not** equal?

(xxii)
$$BF_4^-$$
 H H (xxiii) C_2H_4 (xxiv) SiF_4

11. In which of the following substances will hydrogen bond be strongest?

12.If the electronic configuration of an element is $1s^2 2s^2 2p^6 3s^2 3p^6 3d^2 4s^2$, thefour electrons involved in chemical bond formation will be_____

$$(xxix)3p^6$$

$$(xxx) 3p^6, 4s^2$$

(xxxi)
$$3p^6$$
, $3d^2$

(xxxii)
$$3d^2$$
, $4s^2$

13. Which of the following angle corresponds to sp^2 hybridisation?

- (i) 90°
- (ii) 120°
- (iii) 180°
- (iv) 109°

14. The electronic configurations of three elements, A, B and C are given below. Answer the questions 14 to 17 on the basis of these configurations.

A
$$1s^2$$
 $2s^2$ $2p^6$

B
$$1s^2$$
 $2s^2$ $2p^6$ $3s^2$ $3p^3$

C
$$1s^2$$
 $2s^2$ $2p^6$ $3s^2$ $3p^5$

15. Stable form of A may be represented by the formula :

(xxxvi)

16.Stable form of **C** may be represented by the formula :

(xxxvii) C

- 17. The molecular formula of the compound formed from B and C will be
 - (i) BC
 - (ii) B₂C
 - (iii) BC₂
 - (iv) BC₃
- 18. The bond between B and C will be
 - (v) Ionic
 - (vi) Covalent
 - (vii) Hydrogen
 - (viii) Coordinate
- 19. Which of the following order of energies of molecular orbitals of N, is correct?

(i)
$$(\pi 2p_{\nu}) < (\sigma 2p) < (\pi^* 2p) \approx (\pi^* 2p_{\nu})$$

(ii)
$$(\pi 2p_y) > (\sigma 2p_z) > (\pi^* 2p_x) \approx (\pi^* 2p_y)$$

(iii)
$$(\pi 2p) < (\sigma 2p) > (\pi^* 2p) \approx (\pi^* 2p)$$

(iv)
$$(\pi 2p) > (\sigma 2p) < (\pi^* 2p) \approx (\pi^* 2p)$$

- 20. Which of the following statement is **not** correct from the view point of molecular orbital theory?
 - (ix) Be₂ is not a stable molecule.
 - (x) He, is not stable but He is expected to exist.
 - (xi) Bond strength of N₂ is maximum amongst the homonuclear diatomic molecules belonging to the second period.
 - (xii) The order of energies of molecular orbitals in N_2 molecule is

$$\sigma 2s < \sigma^* \ 2s < \sigma 2p < (\pi 2p \ = \pi 2p \) < (\pi^* \ 2p \ = \pi^* \ 2p \) < \sigma^* 2p$$

S.NO	Name of the student	CLASS	SIGNATURE OF THESTUDENT
1	K.APPANNA BABU	IIIMPC	K.APPANNA BABU
2	L.RAMA DEVI	IIIMPC	L.RAMA DEVI
3	P.NARSAYYA	IIIMPC	P.NARSAYYA
4	V.BHEEMI REDDY	IIIMPC	V.BHEEMI REDDY
5	B.V.KRISHNA REDDY	IIIMPC	B.V.KRISHNA REDDY
6	M.VENKATA LAKSHMI	IIIMPC	M.VENKATA LAKSHMI
7	S.KARNAMMA	IIIMPC	S.KARNAMMA
8	G.SAI PRASAD	IIIMPC	G.SAI PRASAD
9	K.VEERA DURGA RAO	IIIMPC	K.VEERA DURGA RAO
10	M.RAMI REDDY	IIIMPC	M.RAMI REDDY
11	Y.SATYANARAYANA REDDY	IIMPC	Y.SATYANARAYANA REDDY
12	B.GANGA BHAVANI	IIMPC	B.GANGA BHAVANI
13	CH.BYULAKSHMI	IIMPC	CH.BYULAKSHMI
14	CH.SATYAVATHI	IIMPC	CH.SATYAVATHI
15	T.LOVA KUMARI	IIMPC	T.LOVA KUMARI
16	S.PAVAN KALYAN	IIMPC	S.PAVAN KALYAN
17	S.SAI DURGA	IIMPC	S.SAI DURGA
18	S.SIVA NANDHINI	IIMPC	S.SIVA NANDHINI
19	P.ARUNA	II MPC	P.ARUNA
20	J.SUBHADRA	IMPC	J.SUBHADRA
21	K.ANUSHA	IMPC	K.ANUSHA
22	K.PRAKASH REDDY	IMPC	K.PRAKASH REDDY
23	K.RAJA BABU	IMPC	K.RAJA BABU
24	M.ANIL KUMAR DORA	IMPC	M.ANIL KUMAR DORA





GOVERNMENT DEGREE COLLEGE RAMPACHODAVARAM ALLURI SEETHA RAMA RAJU DISTRICT

DEPARTMENT OF CHEMISTRY

QUIZ COMPETITION FOR I ,II,III B.Sc

2018-2019

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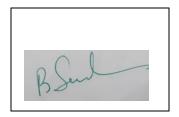
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Yours faithfully

PRINCIPAL
Government Degree College
Rampachodavaram



CIRCULAR

The Department of Chemistry is going to be conducted a student Quiz on 15-02-2019. All the students must attend the Quiz in The chapter Group – 13 Elements Chemistry Lab Room:17 without fail

B.SURENDRA

Lecturer in Chemistry

GOVERNMENT DEGREE COLLEGE

RAMPACHODAVRAM

DEPARTMENT OF CHEMISTRY REPORT ON QUIZ PROGRAMME

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LECTURE IN CHEMISTRY



Quiz

This set of Chemistry Multiple Choice Questions & Answers (MCQs) focuses on "p-Block Elements – Group 13 Elements: Boron Family".

- 1. Are group 13 elements a part of p block elements?
- a) Yes
- b) No
- c) Only a few
- d) Only one

Answer:a

- 2. Which of the following group's elements have smaller atomic radii?
- a) Group 1 elements
- b) Group 2 elements
- c) Group 13 elements
- d) All have the same atomic radii

Answer:c

- 3. The atomic radius of gallium is greater than that of aluminum.
- a) True
- b) False

Answer:b

- 4. Gallium remains liquid up to _____ Kelvin.
- a) 2176
- b) 2376
- c) 2476
- d) 2276

Answer: d

- 5. The ionization enthalpy _____ down the group in the family.
- a) Increases
- b) Decreases
- c) Constant
- d) Is a regular

View Answer

6. Inert pair affect de a) Increases b) Decreases c) Constant d) Is a regul Answer: a	own the group.	
7. Which of the following element a) Gallium b) Thallium c) Indium d) Aluminium Answer:d 8. Which of the following is true re a) Gallium < aluminium > indium b) Aluminium > gallium < indium c) Aluminium > gallium < indium d) Gallium > aluminium > indium	egarding reducing character? > thallium > thallium > thallium	ly?
Answer: b		
9. Complex formation is more likea) alkali metalsb) alkaline earth metalsc) boron familyd) equally likely	ely to be possible in	_
Answer: c 10. The compounds formed by th a) ionic b) covalent c) both ionic and covalent d) neither ionic nor covalent Answer:c	e Boron family are	
11. What is the chemical formula of a) AIC b) AIC ₃ c) AIC ₂ d) AC ₃ View Answer Answer: b Explanation: 4 moles of aluminium a form aluminium carbide. Aluminium chemical formula is given by AIC ₃ .	atom combines with 3 moles of carb	
12. When boron reacts with nitrogen a) Boron oxide b) Boron nitrate c) Boron hydrides d) Boron nitride View Answer Answer: d Explanation: On heating, two moles order to form 2 moles of boron nitrid nitride in the same way.	of boron atom combine with one m	ole of a nitrogen molecule in
13. What forms when boron combine a) Formation of oxygen	es with caustic soda?	

Answer: d

Explanation: Two moles of boron atoms fuse with 6 moles of sodium hydroxide in order to form 2 moles of sodium borate and three moles of hydrogen molecules. Sodium hydroxide is also known as caustic soda.

b) Formation of washing soda c) Formation of Boron nitride d) Formation of sodium borate

View Answer Answer: d

14. The metallic character of is less than that of alkaline earth metals. a) Boron family b) Alkali metals c) Magnesium d) Hydrogen View Answer Answer: a
Explanation: The elements of the Boron family are less electropositive than the alkaline earth metals due to their smaller size and higher ionization enthalpies. On moving down the group, the electropositive character first increases from Boron to aluminium and then decreases from gallium so thallium due to the presence of d and f orbitals which causes poor shielding.
15. Which of the following is the correct order for the stability of plus one oxidation State? a) Ga < In < TI b) Ga < In > TI c) Ga > In < TI d) Ga > In > TI View Answer Answer: a Explanation: The correct order of the increased stability of + 1 oxidation state in gallium, indium and thallium is that; gallium stability is less than that of thallium.
16. What is the atomic number of thallium?
(a) 81
(b) 77
(c) 66
(d) None of the above
Answer: (a) The atomic number of thallium is 81.
17. Which of the following element primarily shows a +1 oxidation state?
(a) Boron
(b) Aluminium
(c) Thallium
(d) None of the above
Answer: (c) Thallium primarily shows a +1 oxidation state.
18. Which of the following electrolyte is used to extract aluminium?
(a) Pure alumina with bauxite and molten cryolite
(b) Fused cryolite with fluorspar
(c) Pure alumina in molten cryolite
(d) Fused cryolite with felspar
Answer: (c) Pure alumina in molten cryolite is used to extract aluminium.
19. The electrolytic refining of aluminium is known as
(a) Hoop's process
(b) Baeyer's process
(c) Serpeck's process
(d) None of the above
Answer: (a) The electrolytic refining of aluminium is known as Hoop's process.
20. Which of the following is the hardest compound of boron?
(a) Boron carbide
(b) Boron fluoride
(c) Boron nitride

+1 oxidation state increases.

22. Why is BCI_3 more than stable $TICL_{3?}$

Answer: (c) Boron nitride is the hardest compound of boron.

21. How does the oxidation state varies when we move from boron to thallium?

(d) None of the above

Answer: BCl₃ is more than stable TICL₃ because, in boron (2 s², 2 p_x¹), all three valence electrons are available for bonding with chlorine. While in TICl₃ (6 s², 6 p_x¹), the 6s orbital experiences a maximum screening effect. Thus, only 6 p¹ electron is available for bonding with chlorine, making BCl₃ more than stable TICL₃.

Answer: When we move from boron to thallium, the stability of the +3 oxidation state decreases while that of the

Answer: Boric acid (H₃BO₃) forms metaboric acid (HBO₂) when heated above 370K, while on further heating, it oxidises to boric oxide (B₂O₃)

 $H_3BO_3 + Heat \rightarrow HBO_2 + Heat \rightarrow B_2O_3$

24. How can you prove the amphoteric nature of aluminium?

Answer: We can justify the amphoteric nature of aluminium by reacting it with an acid and a base.

Reaction with an Acid: Aluminium reacts with an acid to yield salt and hydrogen gas.

2 Al + 6 HCl \rightarrow 2 AlCl₃ + 3 H₂ \uparrow

Reaction with a base: Aluminium reacts with a base to yield salt and hydrogen gas.

2 Al + 2 NaOH + 6 $H_2O \rightarrow$ 2 Na+[Al(OH)₄]- + 3 $H_2 \uparrow$

25. Why is the bond length of the B-F bond longer in BF₄-while shorter in BF_{3?}

Answer: The bond length of the B-F bond is longer in BF₄-while shorter in BF₃ because the BF₄- is sp₃ hybridised while BF₃ is sp² hybridised. An sp³ hybridised orbital is longer than the sp² hybridised orbital. Thus, the bond length of the B-F bond is longer in BF₄-while shorter in BF₃.

26. Why do boron halides form addition compounds with ammonia and amines?

Answer: Boron halides are electron deficient in nature, so they form additional compounds with electron-rich species like ammonia and amines.

27. Why does gallium have large ionisation enthalpy than aluminium?

Answer: Gallium has larger ionisation enthalpy than aluminium because gallium has a poor screening effect, due to which the effective nuclear charge in gallium increases.

Thus, gallium has higher ionisation enthalpy than aluminium.

FEED BACK FROM STUDENTS

- 1.Is the QUIZ useful for you
- a) Yes
- b) No
- 2. How was the student present Participation
- a)Good
- b) Better C)Excellent
- 3. Did the event meet your expectation
- a) yes
- b) No
- 4.Is the content clear by the presenter
- a) Yes
- b) No
- 5.Did you enjoyed the quiz or felt bored
- a) Enjoyed
- b) Bored

S.NO	NAME OF THE STUDENT	CLASS	SIGNATURE OF THE STUDENT
1	VANJAM DURGA RAO	IBZC	VANJAM DURGA RAO
2	POLISETTY.RAJULAMMA	IBZC	POLISETTY.RAJULAMMA
3	PALLALA.NARAYANA REDDY	IBZC	PALLALA.NARAYANA REDDY
4	MURLA RATNA KUMARI	IBZC	MURLA RATNA KUMARI
5	MADAKAM.VAMSI KUMAR	IMPC	MADAKAM.VAMSI KUMAR
6	MIRTHIVADA.RAJA REDDY	IMPC	MIRTHIVADA.RAJA REDDY
7	PALLALA.RAJYA LAKSMI	IMPC	PALLALA.RAJYA LAKSMI
8	BOGGULA. RAVI KIRAN	IMPC	BOGGULA. RAVI KIRAN
9	B.ABBAI REDDY	IIMPC	B.ABBAI REDDY
10	G.SRINIVASA RAO	IIMPC	G.SRINIVASA RAO
11	J.SUBHADRA	IIMPC	J.SUBHADRA
12	K.CHINNA REDDY	IIMPC	K.CHINNA REDDY
13	K.PRAKASH REDDY	IIMPC	K.PRAKASH REDDY
14	V.PRABHAVATHI	IIMPC	V.PRABHAVATHI
15	K.SATYANARAYANA REDDY	IIMPC	K.SATYANARAYANA REDDY
s16	M.ANIL KUMAR DORA	IIMPC	M.ANIL KUMAR DORA
17	Y.SATYANARAYANA REDDY	IIIMPC	Y.SATYANARAYANA REDDY
18	B.GANGA BHAVANI	IIIMPC	B.GANGA BHAVANI
19	CH.BYULAKSHMI	IIIMPC	CH.BYULAKSHMI
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21	T.LOVA KUMARI	IIIMPC	T.LOVA KUMARI
22	S.PAVAN KALYAN	IIIMPC	S.PAVAN KALYAN
23	S.SAI DURGA	IIIMPC	S.SAI DURGA
24	S.SIVA NANDHINI	IIIMPC	S.SIVA NANDHINI
25	P.ARUNA	IIIMPC	P.ARUNA

GOVERNMENT DEGREE COLLEGE RAMPACHODAVARAM ALLURI SEETHA RAMA RAJU DISTRICT

DEPARTMENT OF CHEMISTRY

QUIZ COMPETITION FOR I ,II,III B.Sc

2019-2020

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RAMPACHODAVARAM.

RAMPACHODAVARAM, 24-02-2020.

Respected Sir,

SUB: Seeking permission to conduct student seminars for the year 2019-2020 Req reg.

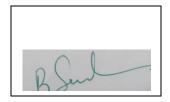
I B.SURENDRA ,Lecturer in chemistry,Govt.Degree College, Rampachodavaram, planned to conduct student seminars for the year 2019-2020 for I,II,III B.Sc[MPC] classes.

So kindly grant me permission to conduct seminars.

Thanking you sir.

Yours faithfully





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BSent

B.SURENDRA

Lecturer in Chemistry

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RAMPACHODAVRAM

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BSul

B.SURENDRA

LECTURE IN CHEMISTRY

CARBOHYDRATES

Carbohydrates are the most abundant biomolecules on earth. Oxidation of carbohydrates is the central energy-yielding pathway in most non-photosynthetic cells.

Definition:Carbohydrates are polyhydroxy aldehydes or ketones, or substances that yield such compounds on hydrolysis. carbohydrates have the empirical formula (CH2O)n.

There are three major classes of carbohydrates:

- 1. Monosaccharides Monosaccharides, or simple sugars, consist of a single polyhydroxy aldehyde or ketone unit. The most abundant monosaccharide in nature is the six-carbon sugar Dglucose, sometimes referred to as dextrose.
- 2. Oligosaccharides Oligosaccharides consist of short chains of monosaccharide units, or residues, joined by characteristic linkages called glycosidic bonds. The most abundant are the disaccharides, with two monosaccharide units.

Example: sucrose (cane sugar).

3.Polysaccharides The polysaccharides are sugar polymers containing more than 20 or so monosaccharide units, and some have hundreds or thousands of units. Example: starch. Polysaccharides are of two types based on their function and composition. Based on function, polysaccharides of two types storage and structural.

A. Storage

polysaccharide - starch.

- B. Structural polysaccharide cellulose.
- 1. Fructose is metabolized by
 - A. fructose 1-phosphate pathway
 - B. fructose 6-phosphate pathway
 - C. glyceraldehyde 3-phosphate pathway
 - D. both (a) and (b)

Answer: Option D

- A common way that cells capture the energy released during the breakdown of large molecules is to add electrons to smaller, specialized molecules that can accept them. This process of electron acceptance is otherwise known as
 - A. biosynthesis
 - B. metabolism
 - C. reduction
 - D. catalysis

Answer: Option C

- 3. Humans are unable to digest
 - A. starch
 - B. complex carbohydrates
 - C. denatured proteins
 - D. cellulose

Answer: Option D

4. How many ATP equivalents per mole of glucose input are required for gluconeogenesis?

- **B.** 6
- **C**. 8
- **D**. 4

Answer: Option **B**

- 5. Which of the following compounds is responsible for coordinated regulation of glucose and glycogen metabolism?
 - A. NAD+
 - B. Fructose 2,6 bisphosphate
 - C. Acetyl-CoA
 - D. Fructose 1,6 bisphosphate

Answer: Option B



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S.NO	NAME OF THE STUDENT	CLASS	SIGNATURE OF THE STUDENT
1	VANJAM DURGA RAO	IIBZC	VANJAM DURGA RAO
2	POLISETTY.RAJULAMMA	IIBZC	POLISETTY.RAJULAMMA
3	PALLALA.NARAYANA REDDY	IIBZC	PALLALA.NARAYANA REDDY
4	MURLA RATNA KUMARI	IIBZC	MURLA RATNA KUMARI
5	MADAKAM.VAMSI KUMAR	IIMPC	MADAKAM.VAMSI KUMAR
6	MIRTHIVADA.RAJA REDDY	IIMPC	MIRTHIVADA.RAJA REDDY
7	PALLALA.RAJYA LAKSMI	IIMPC	PALLALA.RAJYA LAKSMI
8	BOGGULA. RAVI KIRAN	IIMPC	BOGGULA. RAVI KIRAN
9	B.ABBAI REDDY	IIIMPC	B.ABBAI REDDY
10	G.SRINIVASA RAO	IIIMPC	G.SRINIVASA RAO
11	J.SUBHADRA	IIIMPC	J.SUBHADRA
12	K.CHINNA REDDY	IIIMPC	K.CHINNA REDDY
13	K.PRAKASH REDDY	IIIMPC	K.PRAKASH REDDY
14	V.PRABHAVATHI	IIIMPC	V.PRABHAVATHI
15	K.SATYANARAYANA REDDY	IIIMPC	K.SATYANARAYANA REDDY
s16	M.ANIL KUMAR DORA	IIIMPC	M.ANIL KUMAR DORA
17	M.SATYANARAYANA REDDY	IMPC	M.SATYANARAYANA REDDY
18	P.ASHOK REDDY	IMPC	P.ASHOK REDDY
19	M.PUJITHA	IMPC	M.PUJITHA
20	M.SYAM KUMAR	IMPC	M.SYAM KUMAR
21	V.CHANDRIKA	IMPC	V.CHANDRIKA
22	M.SARASWATHI	IMPC	M.SARASWATHI
23	P.LALITHA	IMPC	P.LALITHA
24	Y.ESWARI	IMPC	Y.ESWARI
25	K.HEMAHAHESWARI	IBZC	K.HEMAHAHESWARI
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GOVERNMENT DEGREE COLLEGE RAMPACHODAVARAM ALLURI SEETHA RAMA RAJU DISTRICT

DEPARTMENT OF CHEMISTRY

QUIZ COMPETITION FOR I ,II,III B.Sc

2020-2021

REPORT ON STUDENT QUIZ -I,II,III- B.Sc

The Department of Chemistry Conducted a student Seminar for the students of II B.Sc mpc Students on 25-02-2021 .The topic For the QUIZ was Group-13 Elements .

Majority of the students from I B.Sc II B.Sc III B.Sc were attended for the QUIZ .The topic was enlightened and informative to the students. Few Students have asked questions related to the topic .After the completion of seminar feed back was also Collected from the students. TO
THE PRINCIPAL,
GOVT.DEGREE COLLEGE,
RAMPACHODAVARAM.

RAMPACHODAVARAM, 20-02-2021.

Respected Sir,

SUB: Seeking permission to conduct student seminars for the year 2020-2021 Req reg.

I B.SURENDRA ,Lecturer in chemistry,Govt.Degree College, Rampachodavaram, planned to conduct student seminars for the year 2020-2021 for I,II,III B.Sc[MPC] classes.

So kindly grant me permission to conduct seminars.

Thanking you sir.

Yours faithfully

PRINCIPAL
Government Degree College
Rampachodavaram



CIRCULAR

The Department of Chemistry is going to be conducted a student Quiz on 26-02-2020.All the students must attend the Quiz in The chapter Group – 13 Elements Chemistry Lab Room:17 without fail

BSent

B.SURENDRA

Lecturer in Chemistry

GOVERNMENT DEGREE COLLEGE

RAMPACHODAVRAM

DEPARTMENT OF CHEMISTRY REPORT ON QUIZ PROGRAMME

The Department Of Chemistry has conducted an inter group quiz programme on 25-02-2021. It was a 3 stage competition which covered the areas of In-Organic, Organic and Physical chemistry. There were a total 4 teams. Every team had six members from first, second and third year of students. The programme was started at 11:00AM. The Judging panel consists of two judges M.Srinivasa Rao Lecturer in COMMERCE and G. LAKSHMI KUMARI LECTURER in Political Science. In the first round the questions were asked from the in-Organic chemistry The winners of this round was team A. Second round questions were asked from Organic chemistry. The winners of this round was team C. In the third round the questions were asked from Physical chemistry. In this round the leading team was A. The team A was declared as winners of the inter group quiz competition. Over all this inter group quiz competition was a huge triumph. College principal Dr.V.Srinivasa Rao congratulated the winners.

B.SURENDRA

LECTURE IN CHEMISTRY



Chemistry Questions and Answers – p-Block Elements – Group 14 Elements: Carbon Family

This set of Chemistry Multiple Choice Questions & Answers (MCQs) focuses on "p-Block Elements – Group 14 Elements: Carbon Family".

- 1. The ionization enthalpy and density increase in the group from top to bottom.
- a) true
- b) false

Answer: b

- 2. Why hydrides of Germanium are known as _____
- a) silanes
- b) germanes
- c) stannum
- d) plumbane

Answer: b

- 3. The group 14 elements form _____ hydrides.
- a) metallic
- b) ionic

c) covalent	
d) both coval	ent and
Answer: c	
	he following group 14 elements is a metal?
a) Stannum	To rome with 8 to up 1 to contents to a metall
b) Carbon	
c) Germaniun	n
d) Silicon	•
a) Silicon	
Answer: a	
6. What is the	e colour of silicon?
a) blue	
b) silver	
c) black	
d) light brown	n
, 0	
Answer: d	
7. What is the	e fajan's rule about?
a) electroneg	
b) ionic comp	•
c) Oxidation S	
d) covalent co	
•	·
Answer: c	
8 Do Carbon	family elements show multiple bonding?
a) Yes	, comercial and analysis accounting
b) Maybe	
c) No	
d) Cannot say	,
a, camier sa,	
Answer: a	
9. All the eler	ments in group 14 exhibit tetravalency.
a) true	
b) false	
Answer: a	

a) Yesb) Maybec) Nod) Cannot say	
Answer: a	
	/ FDOM CTUDENTS
FEED BACK	K FROM STUDENTS
1.Is the QUIZ	Z useful for you
a) Yes	b) No
2.How was t	the student present Participation
a)Good	b) Better C)Excellent
3.Did the ev	ent meet your expectation
a) yes	b) No
4.Is the cont	ent clear by the presenter
a) Yes	b) No
	signed the quiz or falt bared
5.Did you er	ijoyed the quiz or felt bored

	1		
S.NO	NAME OF THE STUDENT	CLASS	SIGNATURE OF THE STUDENT
1	VANJAM DURGA RAO	IIIBZC	VANJAM DURGA RAO
2	POLISETTY.RAJULAMMA	IIIBZC	POLISETTY.RAJULAMMA
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12	A.SAILAJA	I MPC	A.SAILAJA
13	K.NAVYANJALI	I MPC	K.NAVYANJALI
14	CH.SOMALAMMA	I BZC	CH.SOMALAMMA
15	K.ASHOK KUMAR DORA	I BZC	K.ASHOK KUMAR DORA
16	S.CHANDANA PRIYA	I BZC	S.CHANDANA PRIYA
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GOVERNMENT DEGREE COLLEGE RAMPACHODAVARAM ALLURI SEETHA RAMA RAJU DISTRICT

DEPARTMENT OF CHEMISTRY

QUIZ COMPETITION FOR I ,II,III B.Sc

2021-2022

GOVERNMENT DEGREE COLLEGE RAMPACHODAVRAM

DEPARTMENT OF CHEMISTRY

TO

RAMPACHODAVARAM

THE PRINCIPAL

11-02-2022

GOVERNAMENT DEGREE COLLEGE
RAMPACHODAVARAM

Sir,

Sub: Application submitted for seeking permission to conduct quiz programme req reg.

On the occasion of celebration of National Science day, we are planning to conduct a quiz programme to i,ii,&iii BSC MPC&BZC students.

This is for your kind information. So kindly grant me permission to conduct quiz programme on 17/02/2022.

Thanking you sir

PRINCIPAL
Government Degree College
Rampachodavaram

Yours faithfully

M. GANESH



GOVERNMENT DEGREE COLLEGE

RAMPACHODAVRAM

DEPARTMENT OF CHEMISTRY

CIRCULAR

The Department of Chemistry is planned to conduct an inter group quiz programme for all the three years of BSc MPC&BZC Students on 17-02-2022. I Cordially invite all the staff members to attend quiz programme. All the students must attend the quiz in Room No-10 without fail.

M GANESH
LECTURER IN CHEMISTRY



GOVERNMENT DEGREE COLLEGE

RAMPACHODAVRAM

DEPARTMENT OF CHEMISTRY REPORT ON QUIZ PROGRAMME

The Department Of Chemistry has conducted an inter group quiz programme on 15-02-2022. It was a 3 stage competition which covered the areas of In-Organic, Organic and Physical chemistry. There were a total 4 teams. Every team had six members from first, second and third year of students. The programme was started at 11:00AM. The Judging panel consists of two judges Raja Sekhar Lecturer in Mathematics and S.R.B.Chakravarthy, Lect.in English. In the first round the questions were asked from the in-Organic chemistry The winners of this round was team A. Second round questions were asked from Organic chemistry. The winners of this round was team C. In the third round the questions were asked from Physical chemistry. In this round the leading team was A. The team A was declared as winners of the inter group quiz competition. Over all this inter group quiz competition was a huge triumph. College principal Dr.V.Srinivasa Rao congratulated the winners.

LECTURE IN CHEMISTRY

GOVERNMENT DEGREE COLLEGE, RAMPACHODAVARAM

DEPARTMENT OF CHEMISTRY

QUIZ- BSC[MPC &BZC]

Chemistry MCQ Questions and Answers

1. The nucleus of an atom consists of
A. electrons and protons
B. electrons and neutrons
C. protons and neutrons
D. All of the above
Answer: protons and neutrons
2. The most electronegative element among the following is
A. bromine
B. sodium
C. fluorine
D. oxygen
Answer: fluorine
3. The metal used to recover copper from a solution of copper sulphate is
A. Ag
B. Na
C. Hg
D. Fe
Answer: Fe
4. The main use of salt in the diet is to
A. produce in small amounts the hydrochloric acid required for the digestion of food
B. make the taste of food better
C. increase the solubility of food particles in water
D. ease the process of cooking
Answer: produce in small amounts the hydrochloric acid required for the digestion of food

5. The mass of one Avogadro number of helium atom is ___

B. 4 x 6.02 x 10 ²³ gram
C. 8.00 gram
D. 1.00 gram
Answer: 4 x 6.02 x 10 ²³ gram
6. What are the number of moles of Co2 which contains 16 g of oxygen?
A.0.25 mole
B.0.4 mole
C.0.2 mole
D.0.5 mole
Answer: 0.5 moles
7. The number of water molecules present in a drop of water (volume 0.0018 ml) at room temperature is
A. 6.023 x 10 ²³
B. 4.84 x 10 ¹⁷
C. 6.023 x 10 ¹⁹
D. 1.568×10^3
Answer: 6.023 x 10 ¹⁹
8. The most abundant rare gas in the atmosphere is
A. Ne
B. He
C. Ar
D. Xe
Answer: Ar
9. The Latin word Formica means ant. The name formic acid is derived from this Latin word because
A. ants are attracted by the odour of this acid

B. this acid was first obtained by the distillation of ants
C. this acid, in ancient times, was used to eliminate ant-hills
D. this corrosive acid is secreted by ants to drive away their enemies
Answer: this acid was first obtained by the distillation of ants
10. The inherited traits of an organism are controlled by
A. RNA molecules
B. enzymes
C. DNA molecules
D. nucleotides
Answer: DNA molecules
E. bauxite
11. magnetite The ore which is found in abundance in India isA.
B. fluorspar
C. monazite
Answer: monazite
12. The heat energy produced when the human body metabolises 1 gram of fat is
A. 30 KJ
B. 1 KJ
C. 39 KJ
D. 29 KJ
Answer: 39 KJ
13. The mass number of a nucleus is
A. the sum of the number of protons and neutrons present in the nucleus

C. always less than its atomic number
D. a fraction
Answer: the sum of the number of protons and neutrons present in the nucleus
14. The material which can be deformed permanently by heat and pressure is called
A. thermoplastic
B. polymer
C. thermoset
D. chemical compound
Answer: thermoset
15. The items amenable to detection by soft x-rays are
A. genuine coins from counterfeit coins
B. narcotics
C. lead in bullets
D. contrabands
Answer: genuine coins from counterfeit coins
16. The Most commonly used bleaching agent is
A. alcohol
B. chlorine
C. carbon dioxide
D. sodium chlorine
Answer: chlorine
17. The nucleus of a hydrogen atom consists of
A. 1 neutron only
B. 1 proton only

 $\boldsymbol{B}.$ always more than the atomic weight

C. 1 proton + 2 neutron
D. 1 electron only
Answer: 1 proton only
18. The metal that is used as a catalyst in the hydrogenation of oils is
A. Pb
B. Ni
C. Pt
D. Cu
Answer: Ni
19. The main buffer system of the human blood is
A. H ₂ CO ₃ - HCO ₃
B. H ₂ CO ₃ - CO ² ₃
C. CH₃COOH - CH₃COO
D. NH ₂ CONH ₂ - NH ₂ CONH ⁺
Answer: H ₂ CO ₃ - HCO ₃
20. The heat required to raise the temperature of a body by 1 K is called
A. thermal capacity
B. specific heat
C. water equivalent
D. None of the above
Answer: thermal capacity
21. The nuclear particles which are assumed to hold the nucleons together are
A. positrons
B. neutrons
C. electrons

D. mesons
Answer: mesons
22. The octane number of zero is assigned to
A. n-heptane
B. 2-methyl octane

C. iso-octane

D. 3-methyl octane

Answer: n-heptane

FEED BACK FROM STUDENTS

1.1s the QUIZ useful for you			
a) Yes	b) No		
2. How was the student present Participation			
a)Good	b) Better	C)Excellent	
3.Did the event meet your expectation			
a) yes	b) No		
4.Is the content clear by the presenter			
a) Yes	b) No		
5.Did you enjoyed the quiz or felt bored			
a) Enjoyed	a) Enjoyed b) Bored		

S.NO	NAME OF THE STUDENT	CLASS	SIGNATURE OF THE STUDENT
1	J.CHINNARI	I MPC	J.CHINNARI
2	A.SANTHOSH	I MPC	A.SANTHOSH
3	A.VENKATESULU	I MPC	A.VENKATESULU
4	K.SAI TEJA SRI	I MPC	K.SAI TEJA SRI
5	D.PAVAN	I MPC	D.PAVAN
6	K.HARI CHARAN REDDY	I MPC	K.HARI CHARAN REDDY
7	MAMIDI.CHINNAMMI	I MPC	MAMIDI.CHINNAMMI
8	K.K.BHAVANI	II MPC	K.K.BHAVANI
9	M.RAMYA	II MPC	M.RAMYA
10	M.LAVANYA	II MPC	M.LAVANYA
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24	Y.ESWARI	IIIMPC	Y.ESWARI
25	K.HEMAHAHESWARI	IIBZC	K.HEMAHAHESWARI