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**JEE**  
**(Main)**  
**PAPER-1 (B.E./B. TECH.)**  
**2022**

**COMPUTER BASED TEST (CBT)**  
**Memory Based Questions & Solutions**

**Date: 29 June, 2022 (SHIFT-2) | TIME : (3.00 a.m. to 6.00 p.m)**  
**Duration: 3 Hours | Max. Marks: 300**

**SUBJECT: CHEMISTRY**

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**PART : CHEMISTRY**

- Assertion : Ionisation energy of nitrogen is more than oxygen.  
Reason : In 2p orbital electron feel more repulsion in oxygen in comparison to nitrogen.  
(1) Assertion and reason both are correct and reason is correct explanation of assertion.  
(2) Assertion and reason both are correct statements but reason is not correct explanation of assertion.  
(3) Assertion is correct but reason is wrong statement.

(4) Assertion is wrong but reason is correct statement.

Ans. (2)

Sol. Due to half filled orbital configuration nitrogen has more ionisation energy than oxygen.

2. Column-I

- (i) Siderite
- (ii) Malachite
- (iii) Carnalite
- (iv) Calamine

Column-II

- (a)  $\text{KCl} \cdot \text{MgCl}_2 \cdot 6\text{H}_2\text{O}$
- (b)  $\text{CuCO}_3 \cdot \text{Cu}(\text{OH})_2$
- (c)  $\text{ZnCO}_3$
- (d)  $\text{FeCO}_3$

Correct match is :

	I	II	III	IV		I	II	III	IV
(1)	d	b	a	c	(2)	a	b	c	d
(3)	d	a	b	c	(4)	d	b	c	a


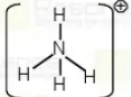
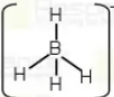
Ans. (1)

Sol. Siderite  $\Rightarrow \text{FeCO}_3$   
 Malachite  $\Rightarrow \text{CuCO}_3 \cdot \text{Cu}(\text{OH})_2$   
 Carnalite  $\Rightarrow \text{KCl} \cdot \text{MgCl}_2 \cdot 6\text{H}_2\text{O}$   
 Calamine  $\Rightarrow \text{ZnCO}_3$

3. Which of the following is correct option regarding  $\text{CH}_4$ ,  $\text{NH}_4^+$  and  $\text{BH}_4^-$

- (1) All are isoelectronic & tetrahedral.
- (2) All are not isoelectronic but tetrahedral.
- (3) All are isoelectronic but only two are tetrahedral.
- (4) All are isoelectronic but all are not tetrahedral.

Ans. (1)

Species	$\text{CH}_4$	$\text{NH}_4^+$	$\text{BH}_4^-$
No. of electron	10	10	10
Structure			
	Tetrahedral	Tetrahedral	Tetrahedral

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4. Which set of compounds contain carbonate ion ?

- (1) Baking soda, Washing soda
- (2) Baking soda, Caustic soda
- (3) Washing soda, Caustic soda
- (4) Only Washing soda

Ans. (1)

Sol. Compound Formula

- (1) Baking soda  $\text{NaHCO}_3$
- (2) Washing soda  $\text{Na}_2\text{CO}_3 \cdot 10\text{H}_2\text{O}$
- (3) Caustic soda  $\text{NaOH}$

5. 1 Mole of  $\text{CoCl}_3 \cdot x\text{NH}_3$  on reaction with excess of  $\text{AgNO}_3$  give 2 moles of  $\text{AgCl}$  then value of X is :

Ans. (5)

Sol.  $\text{CoCl}_3 \cdot x\text{NH}_3 + \text{AgNO}_3 (\text{excess}) \longrightarrow \text{AgCl}$

1 mole 2 moles

It means 2 Cl are outside the co-ordinations sphere & co-ordination number of Co is 6

So possible complex is  $[\text{Co}(\text{NH}_3)_5\text{Cl}]\text{Cl}_2$

so x = 5

6. The magnetic moment (spin only) of complex  $[\text{MnBr}_6]^{4-}$  is ..... BM

[Report your answer to nearest integer]

Ans. (6)

Sol.  $[\text{MnBr}_6]^{4-}$

$${}_{25}\text{Mn}^{2+} = 3d^5 4s^0 \Rightarrow t_{2g}^{1.1.1}, e_g^{1.1}$$

number of unpaired electrons = 5

$$\mu(\text{spin only}) = \sqrt{n(n+2)} \text{ BM} = \sqrt{5(5+2)} \text{ BM} = \sqrt{35} \text{ BM} = 5.916 \text{ BM} \approx 6 \text{ BM}$$

7. For a first order reaction  $K = 6.3 \times 10^{-18} e^{-2000/T}$ . Then the value of activation energy in KJ is :

[given  $R = 8.314 \text{ J/mole} \times \text{K}$ ]

[Report your answer to nearest integer]

Ans. (216)

Sol.  $K = Ae^{-(E_a/R)/T}$

$$K = 6.3 \times 10^{-18} e^{-2000/T}$$

$$\frac{E_a}{R} = 26000 = 26 \times 10^3$$

$$E_a = 26 \times 10^3 \times 8.314 = 216.164 \times 10^3 \text{ J} = 216.164 \text{ KJ}$$

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8. In 100 L vessel at 610 K, 4 mole of Ar and 5 mole of  $\text{PCl}_5$  are taken. At equilibrium total pressure of gases is 6 atm, then value of  $K_p$  is :

$$[R = 0.082 \frac{\text{atm} \times \text{L}}{\text{mole} \times \text{K}}]$$

[Report your answer to nearest integer]

Ans. (2)

Sol.  $\text{PCl}_5(\text{g}) \rightleftharpoons \text{PCl}_3(\text{g}) + \text{Cl}_2(\text{g})$

5 mole                      0                      0

(5 - x)                      x                      x

Total moles at equilibrium = (5 + x) +  $n_{\text{Ar}}$  = (5 + x) + 4 = (9 + x)

$$n_{\text{total}} = \frac{PV}{RT} = \frac{6 \times 100}{0.082 \times 610} = 11.995 = 12 \text{ moles}$$

$$9 + x = 12 \text{ moles}$$

$$x = 3 \text{ moles}$$

$$\text{Pressure of } (\text{PCl}_5 + \text{PCl}_3 + \text{Cl}_2) = \frac{8}{12} \times 6 = 4 \text{ atm}$$

$$K_p = \frac{P_{\text{PCl}_3} \times P_{\text{Cl}_2}}{P_{\text{PCl}_5}} = \frac{\left(\frac{3}{8} \times 4\right) \left(\frac{3}{8} \times 4\right)}{\left(\frac{2}{8} \times 4\right)} = \left(\frac{3}{2}\right) \left(\frac{3}{2}\right) = \left(\frac{9}{4}\right) = 2.25$$

9. For a solution containing non volatile non electrolyte solute concentration is 1.5 m. The elevation in boiling point ( $\Delta T_b$ ) is 4 K while at concentration of 4.5 m depression in freezing point ( $\Delta T_f$ ) is 4 K then find ratio of  $\left(\frac{K_b}{K_f}\right)$ .

Ans. (3)

Sol.  $\Delta T_b = K_b \times m_1$

$$\Delta T_f = K_f \times m_2$$

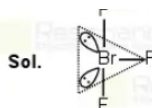
$$\Rightarrow \frac{\Delta T_b}{\Delta T_f} = \frac{K_b \times 1.5}{K_f \times 4.5} = \frac{4 \text{ K}}{4 \text{ K}}$$

$$\frac{K_b}{K_f} = 3$$

10. Shape and number of lone pair electrons in  $\text{BrF}_3$  is :

(1) Bent T-shape, 2      (2) Bent T-shape, 1      (3) See-Saw, 2      (4) See-Saw, 1

Ans. (1)



Bent T-shape with Two unpaired electron.

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11. 42.14 % (w/v) NaCl solution is used to coagulate 1 L of colloidal solution in 10 hours, then coagulation value for 2 hours is :

(1) 36 mole (2) 36 millimole (3) 1440 mole (4) 1440 millimole

Ans. (4)

Sol. Coagulation value =  $\frac{\text{millimoles of electrolyte}}{\text{Volume of solution in L}}$

$$\text{Molarity of NaCl} = \frac{\% (w/v) \times 10}{\text{GMM}} = \left[ \frac{42.14 \times 10}{58.5} \right] = 7.2 \text{ M}$$

millimole of NaCl electrolyte = 7.2 mole = 72000 millimole

Coagulation value for 10 hours =  $\frac{\text{millimoles of electrolyte}}{\text{Volume of solution in L}} = 72000$

For 2 hours Coagulation value =  $\left( \frac{72000 \times 2}{10} \right) = 1440 \text{ millimole}$

12. For the following cell:  $\text{Pt(s)} | \text{H}_2(\text{g}) | \text{H}^+(\text{aq.}) || \text{Cu}^{2+}(\text{aq.}) | \text{Cu}$  at pH = 3,  $E_{\text{cell}} = 0.31 \text{ V}$  and  $[\text{Cu}^{2+}] = 10^{-x}$ , then value of x is .... [Given  $E^\circ_{\text{Cu}^{2+}/\text{Cu}} = 0.34 \text{ V}$ ]

Ans. (7)

Sol. Anode :  $\text{H}_2(\text{g}) \longrightarrow 2\text{H}^+ + 2\text{e}^-$

Cathode :  $\text{Cu}^{2+} + 2\text{e}^- \longrightarrow \text{Cu(s)}$

Overall :  $\text{H}_2(\text{g}) + \text{Cu}^{2+}(\text{aq.}) \longrightarrow 2\text{H}^+(\text{aq.}) + \text{Cu(s)}$

$$E_{\text{cell}} = E^\circ_{\text{cell}} - \frac{0.059}{2} \log \frac{[\text{H}^+]^2}{[\text{Cu}^{2+}]}$$

$$0.31 = 0.34 - \frac{0.06}{2} \log \left( \frac{[\text{H}^+]^2}{[\text{Cu}^{2+}]} \right)$$

$$0.31 = 0.34 + 0.03 [-\log [\text{H}^+]^2 + \log [\text{Cu}^{2+}]]$$

$$0.31 = 0.34 + 0.03 [2\text{pH} + \log [\text{Cu}^{2+}]]$$

$$-0.03 = 0.03 [2\text{pH} + \log [\text{Cu}^{2+}]]$$

$$-1 = 6 + \log [\text{Cu}^{2+}]$$

$$-7 = \log [\text{Cu}^{2+}]$$

$$\log [\text{Cu}^{2+}] = \log 10^{-7}$$

$$[\text{Cu}^{2+}] = 10^{-7}$$

$$x = 7$$

13. Statement-I :  $\text{CuSO}_4 \cdot 5\text{H}_2\text{O}$  contain Cu-O Bond.

Statement-II : Sulphur and oxygen donate it's electron pair and act as ligand.

- (1) Both  $S_1$  &  $S_2$  are true (2) Both  $S_1$  &  $S_2$  are false  
(3)  $S_1$  is true &  $S_2$  is false (4)  $S_1$  is false &  $S_2$  is true

Ans. (3)

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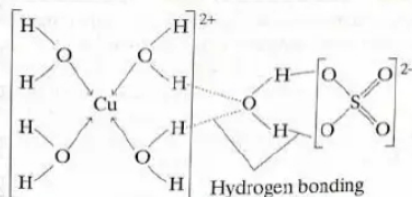
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Sol.  $\text{CuSO}_4 \cdot 5\text{H}_2\text{O} \Rightarrow [\text{Cu}(\text{H}_2\text{O})_4]\text{SO}_4 \cdot \text{H}_2\text{O}$



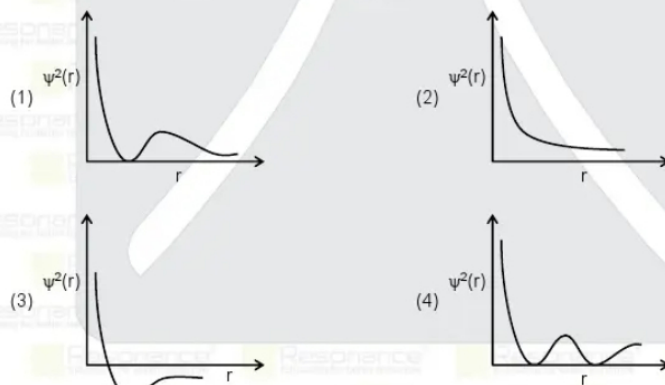
14. An inorganic Compound on reaction with  $\text{BaCl}_2$  give white ppt which on reaction with dilute  $\text{HCl}$  which on reaction with dilute  $\text{HCl}$  give characteristics smell. Which anion is present in inorganic compound

- (1)  $\text{I}^-$  (2)  $\text{S}^{2-}$  (3)  $\text{SO}_3^{2-}$  (4)  $\text{SO}_4^{2-}$

Ans. (3)

Sol.  $\text{SO}_3^{2-} + \text{Ba}^{2+} \longrightarrow \text{BaSO}_3 \downarrow$  (White ppt)  $\xrightarrow{\text{dil HCl}}$   $\text{SO}_2(\text{g}) \uparrow$  (Burning sulphur like smell)  
 $\text{S}^{2-} + \text{Ba}^{2+} \longrightarrow \text{No PPT}$

15. Identify the correct graph for 2s-orbital for  $\psi^2(r)$  vs  $r$ .



Ans. (1)

16. A container contain 128 gram  $\text{O}_2$  (g) and 16 gram  $\text{H}_2$ , then volume of gaseous mixture at STP is (Report your answer to nearest integer)

Ans. (269)

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Sol.  $n_{\text{O}_2} = \frac{128}{32} = 4$  mole

$n_{\text{H}_2} = \frac{16}{2} = 8$  mole

$n_{\text{Total}} = 12$

Volume at STP =  $12 \times 22.4 = 268.8 \text{ L} \approx 269 \text{ L}$

17. What is the value of x in :

0.002858 × 0.112 ...

0.5702 = x

(1) 0.00056      (2) 0.000561      (3) 0.000503      (4) 0.0006

**Ans.** (2)

**Sol.**  $\frac{0.00285 \times 0.112}{0.5702} = \frac{0.0003200}{0.5702} = 0.000561$

**18.** A compound decompose according to 1<sup>st</sup> order reaction, then find time taken (in hours) to reduce concentration from initial value to 6.25 % if its half life is 5 hour.

**Ans.** (20)

**Sol.**  $100 \xrightarrow{t_{1/2}} 50 \xrightarrow{t_{1/2}} 25 \xrightarrow{t_{1/2}} 12.5 \xrightarrow{t_{1/2}} 6.25$   
total time =  $4T_{1/2} = 20$  hours

**19.** Identify most stable carbocation out of following.

(1)

(2)

(3)

(4)

**Ans.** (3)

**Sol.** Due to extend conjugation most stable carbocation is

**20.** Friedal craft alkylation of aniline gives

(1) Secondary amine      (2) Amide product after attack on aniline  
(3) ortho/para alkyl derivative      (4) Meta alkyl derivative

**Ans.** (1)

**Sol.**

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**21.** On heating which structure not affected.

(1) Secondary structure of protein      (2) Primary structure of protein  
(3) Tertiary structure of protein      (4) Quaternary structure of protein

**Ans.** (2)

**Sol.** During denaturation of protein 2 and 3 structure are destroyed but 1<sup>st</sup> structure remain intact.

**22.** **Statement-I :** Dacron is an example of polyester compound.  
**Statement-II :** Dacron is a combination of terphthalic acid & ethylene glycol.

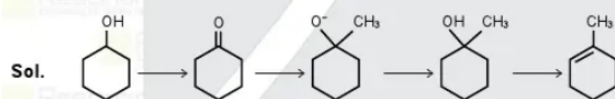
(1) Statement-I and statement-II both are correct and statement-II is correct explanation of statement-I.  
(2) Statement-I and statement-II both are correct statements but statement-II is not correct explanation of statement-I.  
(3) statement-I is correct but statement-II is wrong statement.  
(4) statement-I is wrong but statement-II is correct statement

**Ans.** (1)

**Sol.** It is fact.

**23.**

Ans. 2.0



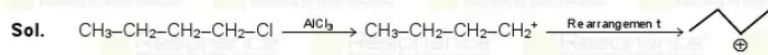
No. of  $sp^2$  carbon are 2 in final product.



Most stable carbocation possible in above reaction is :



Ans. (1)







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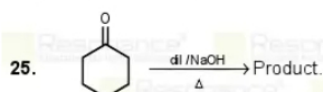
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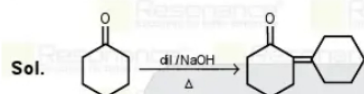
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PAGE # 7



Find out number of  $\pi$ -bonds in product from by above reaction.

Ans. (2)



26. Chloroxylonol and terpineol work as :

- (1) Antiseptic (2) Disinfectant (3) Antipyretic (4) Antibiotic

Ans. (1)

Sol. Commonly used antiseptic Dettol is a mixture of chloroxylonol and terpineol.

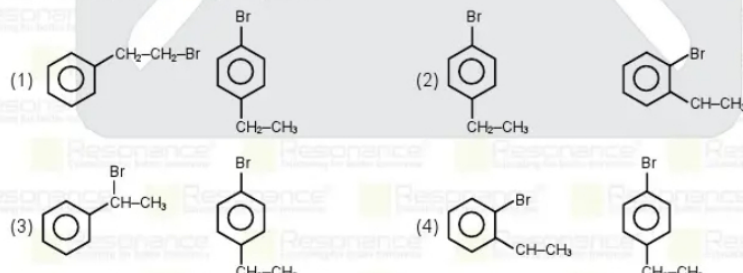
27. Reaction involve in troposphere during acid rain.

- (1)  $H_2S + O_2 \longrightarrow S + H_2O$  (2)  $S + NaOH \longrightarrow Na_2S + Na_2S_2O_3 + H_2O$   
(3)  $I_2 + Na_2S_2O_3 \longrightarrow Na_2S_4O_6 + NaI$  (4)  $2SO_2 + O_2 + 2H_2O \longrightarrow 2H_2SO_4$

Ans. (4)

Sol.  $SO_2$  and  $NO_2$  after oxidation and reaction with  $H_2O$  are major contributors to acid rain.

28. 184 g per mole of given compound having C = 52.4%, H = 4.9% and Br = 42.7% and both A and B react with  $KMnO_4$  & will give benzoic acid and para-bromo benzoic acid respectively than identify compound A and B. Compound A is optically active.



Ans. (3)

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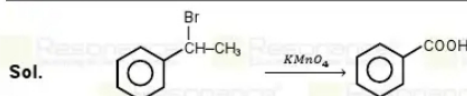
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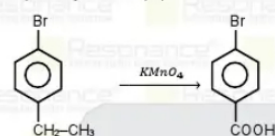
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PAGE # 8

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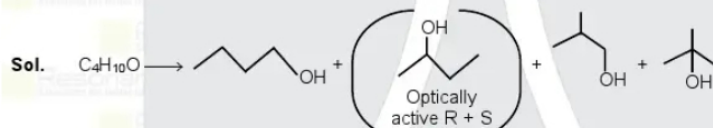
Optically active (A)



(B)

29. Find out number of chiral alcohol of molecular formula  $C_4H_{10}O$ .

Ans. (2)



Only 2-Butanol is chiral with R or S configuration.

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PAGE # 9





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