



# JEE (MAIN) 2024

MEMORY BASED QUESTIONS & SOLUTIONS

SHIFT-2

**DATE & DAY:** 27<sup>th</sup> January 2024 & Saturday

**PAPER-1**

**Duration:** 3 Hrs.

**Time:** 03:00 PM - 06:00 PM

**SUBJECT:** CHEMISTRY

**ADMISSIONS OPEN FOR CLASS 12+**

ACADEMIC SESSION 2024-25



TARGET: JEE (ADV.) 2024

For Class XII Passed Student

**VISHESH COURSE**

MODE: OFFLINE/ONLINE



CLASS STARTS  
08<sup>th</sup> APRIL, 2024



TARGET: JEE (MAIN) 2024

For Class XII Passed Student

**ABHYAAS COURSE**

MODE: OFFLINE/ONLINE



CLASS STARTS  
08<sup>th</sup> APRIL, 2024

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# COURSE

COURSE COMMENCEMENT: 5<sup>th</sup> FEBRUARY 2024

TARGET

**JEE (Main) 2024**  
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## COURSE Concept

Percentile Booster Course (PBC) is for those students who want to boost their percentile in JEE-Main 2024 through a systematic complete course revision & practice plan.

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- Back up support of recorded lectures
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**JEE (Main) 2024 April Attempt में  
अधिकतम %ile प्राप्त करने के लिए आज ही Join करें।**

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### PART : CHEMISTRY

1. Among the following which is temperature dependent ?

- (1) Molarity (2) Molality  
(3) Mole fraction (4) Percentage weight by weight

Ans. (1)

Sol. Molarity is a mass-volume unit therefore temperature dependent where as other are mass-mass units therefore temperature independent.

2. Volume of solution of 3M NaOH, in which 84 gram NaOH is present, is \_\_\_\_\_ x 10<sup>-1</sup> dm<sup>3</sup>

Ans. (7)

Sol. 
$$\text{Molarity} = \frac{\text{mole of solute}}{\text{volume(inLit.) of solution}}$$

$$\text{Molarity of [NaOH]} = \frac{84/40}{V_L} = 3$$

$$V_L = \frac{84}{40 \times 3} = 0.7 \text{ Liter or dm}^3 = 7 \times 10^{-1}$$

3. Which of the following cannot act as oxidising agent ?

- (1) MnO<sub>4</sub><sup>-</sup> (2) SO<sub>4</sub><sup>2-</sup> (3) N<sup>3-</sup> (4) BrO<sub>3</sub><sup>-</sup>

Ans. (3)

**Sol.** Range of oxidation number of N is +5 to -3 therefore its oxidation number cannot decrease from -3. oxidation number of oxidant decreases.

4.  $\text{PbS} + \text{O}_3 \longrightarrow \text{O}_2$   
 (x mol) (y mol)  
 with 1 mol of PbS, determine in the given reaction (x + y) mol value.

**Ans.** (8)

**Sol.**  $\text{PbS} + 4\text{O}_3 \longrightarrow \text{PbSO}_4 + 4\text{O}_2$   
 1 mol 4 mol 4 mol  
 $4 + 4 = 8 \text{ mol}$

5. **Statement 1** : The first member of 16<sup>th</sup> group, oxygen can exhibit -2 oxidation state only.

**Statement 2** : The stability of +4 oxidation state decreases down the group and +6 oxidation state increases down the group.

- (1) Both **Statement-1** & **Statement-2** are correct.
- (2) Both **Statement-1** & **Statement-2** are incorrect.
- (3) **Statement-1** is correct whereas **Statement-2** is incorrect.
- (4) **Statement-1** is incorrect whereas **Statement-2** is correct.

**Ans.** (2)

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**Sol.** Oxygen, can show other oxidation state also in its compound like -1, +1, +2  
 Due to inert pair effect stability of +4 oxidation state increases in oxygen family.

6. If R is Rhydberg constant and longest wavelength of Paschen series is  $\frac{\alpha}{7R}$  then  $\alpha$  is \_\_\_\_\_ ?

**Ans.** (144)

**Sol.** 1st line of Paschen series is :  $n_2 = 4 \rightarrow n_1 = 3$

$$\frac{1}{\lambda} = R \cdot Z^2 \left( \frac{1}{n_1^2} - \frac{1}{n_2^2} \right)$$

$$= \frac{1}{\lambda} = R \cdot (1)^2 \left( \frac{1}{3^2} - \frac{1}{4^2} \right)$$

$$= \frac{7R}{144}; \quad \lambda = \frac{144}{7R} \quad \therefore \alpha = 144$$

7. Time taken for completion of 99.9% of reaction in first order reaction is \_\_\_\_\_ times of time taken in 50% completion of reaction.

**Ans** (10)

**Sol.** For 1<sup>st</sup> order reaction :

$$t_{99.9} = \frac{2.303}{K} \log \frac{100}{100 - 99.9} \quad \text{_____ (1)}$$

$$t_{50\%} = \frac{2.303}{K} \log \frac{100}{100 - 50} \quad \text{_____ (2)}$$

Then from (1)/(2)

$$\frac{t_{99.9}}{t_{50}} = \frac{3}{0.301} = 10$$

$$t_{99.9} = 10 t_{50\%} = 10t_{\frac{1}{2}}$$

8. Which of the following is incorrectly matched.

| Column-I<br>Process     | Column-II<br>Catalyst/Reagents used                                |
|-------------------------|--|
| (1) Wacker's process    | PtCl <sub>2</sub>  |
| (2) Polythene formation | Al(C <sub>2</sub> H <sub>5</sub> ) <sub>3</sub> /TiCl <sub>4</sub> |



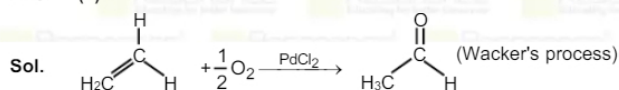
(3) Haber's process

Fe

(4) Photography

AgBr

Ans. (1)



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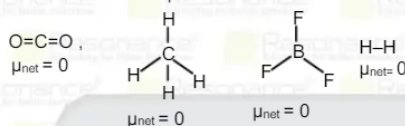
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9. Total number of non-polar molecule in  $\text{H}_2\text{O}$ ,  $\text{CO}_2$ ,  $\text{SO}_2$ ,  $\text{CH}_4$ ,  $\text{NH}_3$ ,  $\text{BF}_3$ ,  $\text{CHCl}_3$ ,  $\text{HCl}$  and  $\text{H}_2$

Ans. (4)

Sol. Total number of non-polar molecule = 4



10. For hydrogen electrode at pH = 3, the reduction potential is  $-\_\_\_ \times 10^{-2}$  V (Nearest integer)

Ans. (18)

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

$$\begin{aligned} E_{\text{RP}} &= E_{\text{RP}}^{\circ} - \frac{0.0591}{2} \log \frac{1}{[\text{H}^+]^2} \\ &= -\frac{0.0591}{2} \log \frac{1}{(10^{-3})^2} \\ &= -\frac{0.0591}{2} \times 6 \\ &= -0.0591 \times 3 = -0.1773 \approx -18 \times 10^{-2} \text{ V} \end{aligned}$$

11. Which of the following species has  $d^2sp^3$  hybridisation ?

(1)  $\text{SF}_6$                       (2)  $\text{BrF}_5$                       (3)  $[\text{PtCl}_4]^{-2}$                       (4)  $[\text{Co}(\text{NH}_3)_6]^{+3}$

Ans. (4)

Sol. (1)  $\text{SF}_6 \rightarrow sp^3d^2$

(2)  $\text{BrF}_5 \rightarrow sp^3d^2$

(3)  $[\text{PtCl}_4]^{-2} \rightarrow dsp^2$

(4)  $[\text{Co}(\text{NH}_3)_6]^{+3} \rightarrow d^2sp^3$

12. The value of magnetic moment of  $[\text{Pt}(\text{NH}_3)_2(\text{CH}_3\text{NH}_2)\text{Cl}]\text{Cl}$  is \_\_\_\_\_ BM.

Ans. (0)

Sol.  $\text{Pt}^{+2} = [54\text{Xe}] 4f^{14} 5d^8 6s^0$

$[\text{Pt}(\text{NH}_3)_2(\text{CH}_3\text{NH}_2)\text{Cl}]\text{Cl}$  is a square planar complex.

In  $4d^8$  and  $5d^8$  due to high  $z_{\text{eff}}$  value of the central metal ion pairing occurs irrespective of nature of ligand.

So there is no unpaired electrons. Hence magnetic moment is zero.

13. Which of the following set of species have  $d^{10}$  configuration ?

(1)  $\text{Cu}^{+1}$ ,  $\text{Zn}^{+2}$ ,  $\text{Pd}$ ,  $\text{Ag}^{+}$                       (2)  $\text{Cu}$ ,  $\text{Cr}$ ,  $\text{Cs}$ ,  $\text{Fe}$

(3)  $\text{Mn}$ ,  $\text{Zn}^{+2}$ ,  $\text{Pd}$ ,  $\text{Ag}^{+}$                       (4)  $\text{Fe}$ ,  $\text{Ba}$ ,  $\text{Cu}^{+2}$ ,  $\text{Zn}^{+2}$

Ans. (1)

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Sol.  ${}_{29}\text{Cu}^+ = [\text{Ar}]3d^{10}$

${}_{30}\text{Zn}^{+2} = [\text{Ar}]3d^{10}$

${}_{46}\text{Pd} = [\text{Kr}]4d^{10}$

${}_{47}\text{Ag}^+ = [\text{Kr}]4d^{10}$

14. **Statement-1** :  $\text{Ce}^{+4}$  has inert gas configuration

**Statement-2** :  $\text{Ce}^{+4}$  convert to  $\text{Ce}^{+3}$  because it is strong oxidising agent.

- (1) Both **Statement-1** & **Statement-2** are correct.  
 (2) Both **Statement-1** & **Statement-2** are incorrect.  
 (3) **Statement-1** is correct whereas **Statement-2** is incorrect.  
 (4) **Statement-1** is incorrect whereas **Statement-2** is correct.

Ans. (1)

Sol.  ${}_{58}\text{Ce} = [\text{Xe}] 4f^1, 5d^1, 6s^2$

$\text{Ce}^{+4}/\text{Ce}^{+3}(E^\circ_{\text{RP}}) = 1.74\text{V}$

15. Identify the incorrect statement regarding rusting of iron ?

- (1) Rusting of iron can be prevented by coating of tin even if the layer of tin is peeled off.  
 (2) Rusting of iron can be considered as electrochemical cell on the surface of iron.  
 (3) At pH = 8 or 9 rusting can take place.  
 (4) Acidic oxides like  $\text{SO}_2$  and  $\text{NO}_2$  catalyse rusting of iron.

Ans. (1)

Sol. Theory based

16. How many of the following have noble gas configuration ?

$\text{Sr}^{+2}, \text{Cs}^+, \text{La}^{+2}, \text{Pb}^{+2}, \text{Yb}^{+2}, \text{Fe}^{+2}$

Ans. (2)

Sol.  $\text{Sr}^{+2}, \text{Cs}^+$

${}_{38}\text{Sr}^{+2} = [\text{Kr}]$

${}_{55}\text{Cs}^+ = [\text{Xe}]$

${}_{82}\text{Pb}^{+2} = [\text{Xe}] 4f^{14}, 5d^{10}, 6s^2$

${}_{57}\text{La}^{+2} = [\text{Xe}] 5d^1$

${}_{70}\text{Yb}^{+2} = [\text{Xe}] 4f^{14}$

${}_{26}\text{Fe}^{+2} = [\text{Ar}] 3d^6$

17. For an equilibrium reaction

$\Delta H^\circ = 77.2 \text{ kJ}; \Delta S^\circ = 122.5 \text{ J/K-mol}$

$T = 300 \text{ K}$ . then  $\log K_{\text{eq}} = -\underline{\hspace{2cm}}$  (Nearest integer)

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Ans. (7)

Sol. For equilibrium reaction  $\Delta G = 0$

$\Delta G^\circ = -2.303 \text{ RT} \log K_{\text{eq}}$

$\Delta H^\circ - T\Delta S^\circ = -2.303 \text{ RT} \log K_{\text{eq}}$

$$\log K_{\text{eq}} = \frac{\Delta H - T\Delta S^\circ}{-2.303\text{RT}} = \frac{77.2 - 300 \times 122 \times 10^{-3}}{-2.303 \times 8.314 \times 300} = -\frac{40.6}{5.76} = -7.07$$

18. Which structure of a protein remain intact even after coagulation of egg white.

- (1) Primary structure (2) Secondary structure  
(3) Tertiary structure (4) Quaternary structure

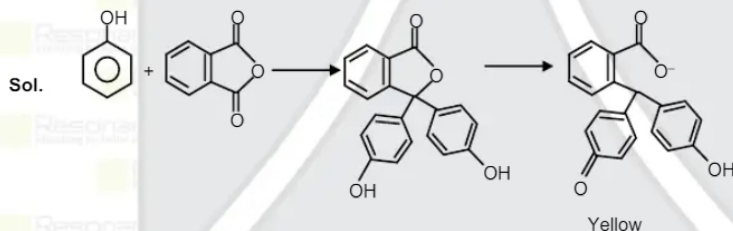
Ans. (1)

Sol. Primary structure means sequence of amino acid and remain unchanged even after coagulation.

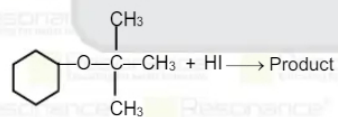
19. Phenolic group can be identified by

- (1) Lucas reagent (2) Carbylamine test  
(3) Tollen's reagent test (4) Phthalein test

Ans. (4)



20. The product of given reaction is



- (1) ,  $(\text{CH}_3)_3\text{C-I}$  (2) ,  $(\text{CH}_3)_3\text{C-I}$   
(3) ,  $(\text{CH}_3)_3\text{COH}$  (4) ,  $(\text{CH}_3)_3\text{CH}$





Ans. (1)

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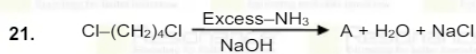
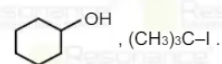
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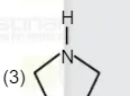
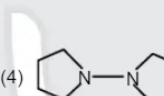
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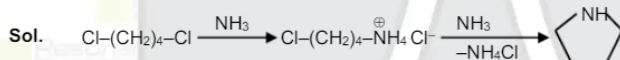
Sol. The reaction proceed with  $\text{S}_{\text{N}}1$ , through-t-butyl carbocation intermediate. Hence the best answer is



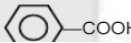
Product A is

- (1)  $\text{NH}_3^+-\text{C}(\text{CH}_3)_4-\text{NH}_3^+$   $\text{Cl}^-$  (2)  $\text{NH}_2-(\text{CH}_2)_4-\text{NH}_2$   
(3)  (4) 

Ans. (3)

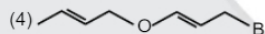
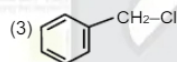
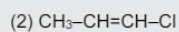
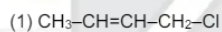


22. The second homologous member of monocarboxylic acid is

- (1)  $\text{HCOOH}$  (2)  $\text{CH}_3\text{COOH}$  (3)  $\text{CH}_3-\text{CH}_2-\text{COOH}$  (4) 

Ans. (2)

23. Which of the following does not give  $S_N1$  reaction



Ans. (2)

Sol. In case of vinylic halide carbocation is not formed, hence it will not proceed via  $S_N1$  reaction.

24. If a substance is steam volatile and immiscible in water then which separation technique can be applied.

(1) Distillation

(2) Steam distillation

(3) Fractional distillation

(4) Distillation under reduced pressure.

Ans. (2)

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25. The correct match is :

|     | Reaction   |     | Reagent  |
|-----|--|-----|--|
| (A) | $\text{Ph-OH} \rightarrow \text{Salicyldehyde}$  | (P) | $\text{CHCl}_3, \text{aq. NaOH}$                         |
| (B) | $\text{Ph-OH} \rightarrow \text{Salicylic acid}$ | (Q) | $\text{NaOH}, \text{CO}_2, \text{H}^+$                   |
| (C) | $\text{Ph-OH} \rightarrow \text{Benzoquinone}$   | (R) | $\text{Na}_2\text{Cr}_2\text{O}_7/\text{H}_2\text{SO}_4$ |
| (D) | $\text{Ph-OH} \rightarrow \text{Anisole}$        | (S) | $\text{NaOH}, \text{CH}_3\text{Br}$                      |

(1) A - P, B - Q, C - R, D - S

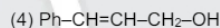
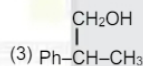
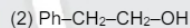
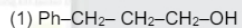
(2) A - Q, B - R, C - S, D - P

(3) A - R, B - S, C - P, D - Q

(4) A - S, B - P, C - Q, D - R

Ans. (1)

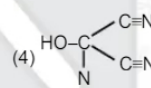
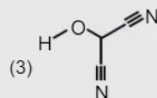
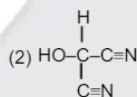
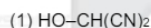
26.  $\text{Ph-CH=CH}_2 \xrightarrow[4. \text{Mg/Et}_2\text{O/HCHO/H}_2\text{O}]{1. \text{BH}_3/\text{THF}, 2. \text{H}_2\text{O}_2/\text{OH}, 3. \text{HBr}}$  Product is :



Ans. (1)

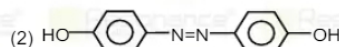
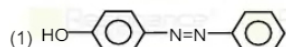
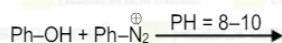
Sol.  $\text{Ph-CH=CH}_2 \xrightarrow[2. \text{H}_2\text{O}_2/\text{OH}]{1. \text{BH}_3/\text{THF}} \text{Ph-CH}_2\text{-CH}_2\text{-OH} \xrightarrow{\text{HBr}} \text{Ph-CH}_2\text{-CH}_2\text{-Br} \xrightarrow[\text{HCHO/H}_2\text{O}]{\text{Mg/Et}_2\text{O}} \text{Ph-CH}_2\text{-CH}_2\text{-CH}_2\text{-OH}$

27. Correct bond line notation is :

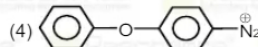


Ans. (3)

28. Product of the reaction is







Ans. (1)

Sol. In basic medium phenol form para hydroxy-azobenzene with benzene diazonium chloride.

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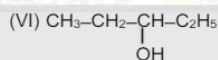
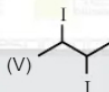
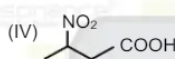
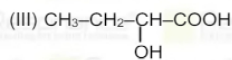
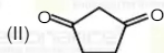
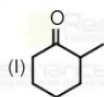
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29. How many of the following contain chiral center ?



Ans. (4)

Sol. (I), (III), (IV) and (V) contains chiral centre.

30. For conformation of  $\text{C}_2\text{H}_6$ , which is not correct information.

(1) Infinite conformers

(2) Interconvertible

(3) Dihedral angle in staggered  $60^\circ$

(4) Eclipsed is more stable

Ans. (4)

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**AIR 37**



S S SUMEDH

**AIR 44**



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**AIR 5**

300/300 Marks



KAUSHAL VIJAYVERGIYA

**AIR 26**

100%ile



SOHAM DAS

**AIR 29**

100%ile



ASHIK STENNY

**AIR 31**

100%ile



KRISH GUPTA

**AIR 34**

100%ile



MAYANK SONI

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