



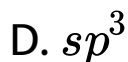
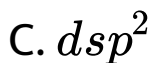
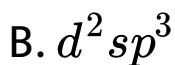
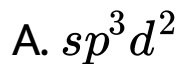
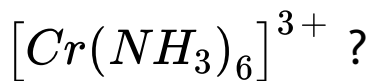
CHEMISTRY

BOOKS - MBD -HARYANA BOARD

MBD MOST EXPECTED MODEL TEST PAPER

**Objective Type Questions Choose The Correct
Option Of The Following Multiple Choice
Questions**

1. What is the hybridization of Cr in



Answer: B



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2. Wurtz reaction is used to prepare organic compounds :

A. Alkanes

B. Alcohols

C. Haloalkanes

D. None

Answer: D



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3. The size of colloidal particles is in the range

:

A. 1 to 100 mm

B. Less than 1 nm

C. More than 100 nm

D. None.

Answer: A



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4. Aspirin is :

A. Antibiotic

B. Analgesic

C. Tranquilizer

D. None

Answer: B



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5. Which base is present in RNA and not in DNA ?

A. Guanine

B. Cytosine

C. Uracil

D. Thymine

Answer: C



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Objective Type Questions Answer The Following Questions In One Or Two Sentences

1. Give the structure of monomer of Teflon :



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2. What type of stoichiometric defect is shown by ZnS ?



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3. What are isotonic solutions ?

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4. Define Faraday (F).

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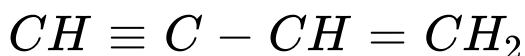
5. What are the unit of rate of a reaction ?

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6. Write the reaction PCl_5 with water.

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7. Give the IUPAC name of



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8. What is Luca. reagent ?

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Very Short Answer Type Questions

1. Briefly explain the effects of temperature on the solubility of solids in liquids.



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2. What are crystalline solids ? Give two examples.



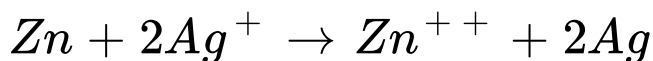
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3. Name any two tests to distinguish Alcohol from Phenol.



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4. Calculate the standard EMF of a cell involving cell reaction.



Given

$$E_{Zn/Zn}^{\circ} = 0.76V, E_{Ag/Ag^{++}}^{\circ} = -0.80V$$



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5. Define adsorption. Give one example.



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6. p. Nitrophenol is more acidic than phenol.

Explain why?



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7. Write the monomers used for preparing following polymers :

(i) glyptal (ii) Nylon-6,6



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8. What are vitamins ? Name any two vitamins.



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9. What is carbylamines test for 1° amine?



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10. Differentiate between minerals and ores.



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Short Answer Type Questions

1. Define the terms:

(i) Activation Energy (ii) Molecularity .

(iii) Rate Constant.



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2. Explain the mechanism of S_N2 reaction.



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3. Define the terms:

(i) Biomolecules

(ii) Carbohydrates

(iii) Reducing Sugars.



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4. Define chelate with example. Write the importance of chelate.



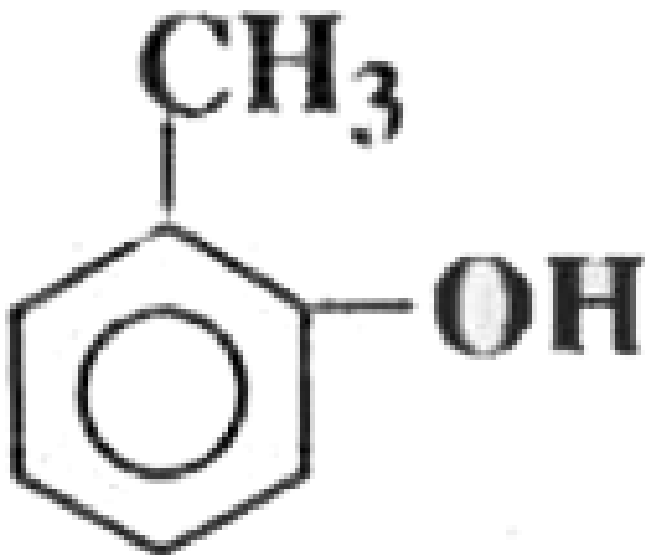
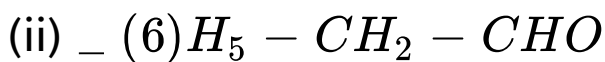
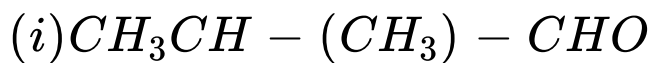
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5. Give two methods of preparation of ketones and write the chemical reactions.



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6. Write the IUPAC names of the following:



(iii)



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7. (a) Define ligand.

(b) Give two examples for monodentate and bidentate ligands.



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Long Answer Type Questions

1. (a) What is Cannizaro's reaction ? Write its mechanism.

(b) Discuss the structure of carbonyl group.



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2. (a) Name three oxy-acids of phosphorus and draw their structures.

(b) Discuss the anomalous behaviour of oxygen.



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3. The chemical reaction of $K_2Cr_2O_7$ with following:

(i) H_2SO_4 (ii) KOH (iii) KI .

(b) What is chromly chloride test ?



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4. (a) Write the chemical reaction of $KMnO_4$

with :

(i) KI (ii) H_2S (iii) $FeSO_4$

(b) Draw the structure of MnO_4^- ,



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5. (a) Explain the magnetic behaviour of transition metals.

(b) Write the electronic configuration of Ni(28), Zn(30).



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