

Maharashtra Board Class 12 Chemistry Question Paper(Memory Based)

General Instructions

1. The question paper consists of six sections — Section A to Section F.
2. Time allowed is **3 hours 15 minutes** and the maximum marks are **90**.
3. All questions are compulsory unless otherwise stated.
4. Section A contains Multiple Choice Questions (MCQs). Choose the correct answer from the given options.
5. Section B includes:
 - True/False questions
 - Fill in the blanks
 - Very short answer questions (one or two words)
6. Section C contains short answer type questions.
7. Section D contains long descriptive questions with internal choices.
8. Section E contains long answer questions. Attempt the required number as instructed.
9. Section F consists of Map Work. Mark and label the places correctly on the outline map of India.
10. Figures to the right indicate full marks for each question.
11. Write neatly and draw diagrams wherever necessary.
12. Write answers only in the space provided or as instructed.

1. All _____ properties of solution are related with decreasing in vapour pressure.

2. Fuel cells produce electricity with an efficiency of about _____ percentage compared to thermal plants whose efficiency is about 40%.

3. Zn, Cd and Hg generally are not considered as _____ elements.

4. In addition of bromine in CCl_4 to an alkene resulting in disappearance of reddish brown colour of bromine constitutes an important method for the detection of _____ in a molecule.

5. Amines behave as _____ due to presence of an unshared pair of electron on Nitrogen atom.

6. Only _____ are obtained on hydrolysis of Protein.

7. Conductivity of a solution increases with dilution. (True/False)

8. Value of magnetic moment of a divalent ion in aqueous solution having atomic number 25 will be 5.92 B.M. (True/False)

9. Bromo, iodo and polychloro derivatives of hydrocarbons are heavier than water. (True/False)

10. Contrary to electrophilic addition reactions observed in alkenes, the aldehydes and ketones undergo nucleophilic addition reactions. (True/False)

11. Lower aliphatic amines are soluble in water while higher amines are essentially insoluble in water. (True/False)

12. The most common sugar used in our homes is called as glucose. (True/False)

13. Match the correct pair:

Column A

Column B

(i) Glycogen

(a) Picric acid

(ii) Sodium benzoate

(b) Secondary valency 6

(iii) 2,4,6-trinitrophenol

(c) Food preservative

(iv) $K_4[Fe(CN)_6]$

(d) Half order

(v) $\text{Rate} = K[A]^{3/2}[B]^{-1}$

(e) Animal starch

14. Write the chemical name of Vitamin B_2 .

15. Write chemical formula of Iron (III) hexacyanidoferrate (II).

16. Write unit of rate constant for second order reaction.

17. Substances have zero resistivity or infinite conductivity known as -----.
