

Punjab Board 2026 Class 12 Chemistry Question Paper (Memory Based)

Time Allowed :3 Hour	Maximum Marks :60	Total Questions :24
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General Instructions

Read the following instructions very carefully and strictly follow them:

- Answers to this Paper must be written on the paper provided separately.
- You will not be allowed to write during the first 15 minutes
- This time is to be spent in reading the question paper.
- The time given at the head of this Paper is the time allowed for writing the answers,
- The paper has four Sections.
- Section A is compulsory - All questions in Section A must be answered.
- You must attempt one question from each of the Sections B, C and D and one other question from any Section of your choice.

1. Calculate the depression in freezing point for a given solution using the cryoscopic constant (K_f).

2. State and explain Kohlrausch's Law and its applications in calculating molar conductivity at infinite dilution.

3. Derive the Nernst Equation for a specific electrochemical cell and calculate its EMF.

4. Explain the difference between molarity and molality and their temperature dependence.

5. Calculate the Activation Energy (E_a) given rate constants at two different temperatures.

6. Discuss the difference between Order and Molecularity of a reaction.

7. Explain Lanthanoid Contraction and its consequences on the atomic radii of 5d series elements.

8. Why do Transition Metals act as good catalysts and form a large number of complex compounds?
