

SAMPLE PAPER (2023 -24)

CHEMISTRY THEORY (043)

Max. Marks:70

Time: 3 hours

General Instructions:

Read the following instructions carefully.

- (a) There are 33 questions in this question paper with internal choice.
 - (b) SECTION A consists of 16 multiple -choice questions carrying 1 mark each.
 - (c) SECTION B consists of 5 short answer questions carrying 2 marks each.
 - (d) SECTION C consists of 7 short answer questions carrying 3 marks each.
 - (e) SECTION D consists of 2 case - based questions carrying 4 marks each.
 - (f) SECTION E consists of 3 long answer questions carrying 5 marks each.
 - (g) All questions are compulsory.
 - (h) Use of log tables and calculators is not allowed.
-

SECTION A

The following questions are multiple -choice questions with one correct answer. Each question carries 1 mark. There is no internal choice in this section.

1. Which of the following solutions will have the highest conductivity at 298 K?
- (a) 0.01 M HCl solution
 - (b) 0.1 M HCl solution
 - (c) 0.01 M CH_3COOH solution
 - (d) 0.1 M CH_3COOH solution



Identify A and B:

- (a) A = 1-phenylethanal, B = acetophenone
 - (b) A = Benzophenone, B = formaldehyde
 - (c) A = Benzaldehyde, B = Acetophenone
 - (d) A = Benzophenone, B = Acetophenone
3. The vitamins which can be stored in our body are:
- (a) Vitamin A, B, D and E
 - (b) Vitamin A, C, D and K
 - (c) Vitamin A, B, C and D
 - (d) Vitamin A, D, E and K
4. What is IUPAC name of the ketone A, which undergoes iodo form reaction to give $\text{CH}_3\text{CH}=\text{C}(\text{CH}_3)\text{COONa}$ and yellow precipitate of CHI_3 ?
- (a) 3-Methylpent-3-en-2-one
 - (b) 3-Methylbut-2-en- one
 - (c) 2, 3-Dimethylethanone
 - (d) 3-Methylpent-4-one
5. Which of the following is not correct?
- (a) In haloarenes, the electron pairs on halogen atom are in conjugation with π -electrons of the ring.
 - (b) The carbon-magnesium bond is covalent and non-polar in nature .
 - (c) During $\text{S}_{\text{N}}1$ reaction, the carbocation formed in the slow step being sp^2 hybridised is planar.
 - (d) Out of $\text{CH}_2=\text{CH}-\text{Cl}$ and $\text{C}_6\text{H}_5\text{CH}_2\text{Cl}$, $\text{C}_6\text{H}_5\text{CH}_2\text{Cl}$ is more reactive towards $\text{S}_{\text{N}}1$ reaction

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