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.
- (q) 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
- The vitamins which can be stored in our body are:
 - (a) Vitamin A, B, D and E

(d) 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

CH3 CH= C(CH3)COONa and yellow precipitate of CHI3?

(a) 3-Methylpent-3-en-2one

(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 S_N1 reaction, the carbocation formed in the slow step being sp2 hybridised is planar.
 - (d) Out of CH2= CH-Cl and C6H3CH2Cl, C6H3CH2Cl is more reactive towards SN1 reaction

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