

Total Time: 3:00 Hours

MRD-12th-141222 (A-II)

Chemistry (Part-II)

Total Marks: 85

(New Course)

Note: There are three sections in this paper i.e. A, B & C.

VERSION : B

- Instructions:
- Please attempt Section-A on the MCQs Answer Sheet only.
 - Only black ball point or marker may be used for shading the relevant circle.
 - Please make sure that there is no cutting, over writing, erasing, or multiple circles shading.

Time Allowed: 20 Minutes

"Section-A"

Marks: 18

Q.1. Choose the correct option i.e. A, B, C or D.

- Which one is an in-plane bending vibration?
(A) Wagging (B) Twisting (C) Scissoring (D) None of these
- A compound when treated with sodium amide yields a salt. The compound is
(A) C_2H_4 (B) C_6H_6 (C) C_6H_{12} (D) C_3H_4
- The optimum pH of pepsin is around
(A) 2.0 (B) 2.5 (C) 3.0 (D) 3.5
- Slow healing of wounds is due to the deficiency of
(A) Ca (B) P (C) Zn (D) Fe
- The coldest region of atmosphere is
(A) Troposphere (B) Stratosphere (C) Mesosphere (D) Thermosphere
- Which of the following alkali metal forms only normal oxide with O_2 ?
(A) Li (B) K (C) Na (D) Rb
- Which of the following is acidic in nature?
(A) Al_2O_3 (B) CO_2 (C) SnO_2 (D) CaO
- The names which remains unchanged in naming co-ordination compounds are
(A) Anionic ligands (B) Neutral ligands (C) Cationic ligands (D) None of these
- Which of the following is a typical transition element?
(A) Co (B) Ra (C) Cd (D) Zn
- Which of the following represents the functional group of amides?
(A) $-CONH_2$ (B) $-C \equiv N$ (C) $-NH_2$ (D) $-COOR$
- Coal can be converted to petroleum by
(A) Haber process (B) Fischer-Tropsch process (C) Fractional distillation (D) Destructive distillation
- How many isomers are possible for C_2H_6O ?
(A) 8 (B) 5 (C) 4 (D) None of these
- The groups that deactivate benzene ring and is *o/p*-directing:
(A) $-NH_2$ (B) $-OH$ (C) $-OCH_3$ (D) $-Cl$
- Oxidation of secondary alcohol gives
(A) Carboxylic acid (B) Aldehyde (C) Ketone (D) Ether
- IUPAC name of acetone is
(A) Ethanoic acid (B) Propanone (C) Ethanol (D) Ethanone
- Which is the strongest acid?
(A) Ethanol (B) Acetic acid (C) Chloroacetic acid (D) Fluoroacetic acid
- Which one of the following is synthetic polymer?
(A) Cellulose (B) Silk (C) Starch (D) Polythene
- Which one of the following technique is mainly used for determination of functional group in a compound?
(A) NMR (B) IR spectroscopy (C) Mass spectroscopy (D) None of these