

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 : A

- 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.

1. Which of the following alkali metal forms only normal oxide with O_2 ?
☐ A Li ☒ B K ☐ C Na ☐ D Rb
2. Which of the following is acidic in nature?
☐ A Al_2O_3 ☒ B CO_2 ☐ C SnO_2 ☐ D CaO
3. The names which remains unchanged in naming co-ordination compounds are
☐ A Anionic ligands ☐ B Neutral ligands ☒ C Cationic ligands ☐ D None of these
4. Which of the following is a typical transition element?
☒ A Co ☐ B Ra ☐ C Cd ☐ D Zn
5. Which of the following represents the functional group of amides?
☒ A $-CONH_2$ ☐ B $-C \equiv N$ ☒ C $-NH_2$ ☐ D $-COOR$
6. Coal can be converted to petroleum by
☐ A Haber process ☒ B Fischer - Tropsch process ☒ C Fractional distillation ☐ D Destructive distillation
7. How many isomers are possible for C_2H_6O ?
☐ A 8 ☐ B 5 ☐ C 4 ☒ D None of these
8. The groups that deactivate benzene ring and is *o/p*-directing:
☐ A $-NH_2$ ☐ B $-OH$ ☐ C $-OCH_3$ ☒ D $-Cl$
9. Oxidation of secondary alcohol gives
☐ A Carboxylic acid ☒ B Aldehyde ☐ C Ketone ☐ D Ether
10. IUPAC name of acetone is
☐ A Ethanoic acid ☒ B Propanone ☐ C Ethanol ☐ D Ethanone
11. Which is the strongest acid?
☐ A Ethanol ☐ B Acetic acid ☐ C Chloroacetic acid ☒ D Fluoroacetic acid
12. Which one of the following is synthetic polymer?
☐ A Cellulose ☐ B Silk ☐ C Starch ☒ D Polythene
13. 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
14. Which one is an in-plane bending vibration?
☐ A Wagging ☐ B Twisting ☒ C Scissoring ☐ D None of these
15. 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
16. The optimum pH of pepsin is around
☐ A 2.0 ☒ B 2.5 ☐ C 3.0 ☐ D 3.5
17. Slow healing of wounds is due to the deficiency of
☐ A Ca ☐ B P ☒ C Zn ☐ D Fe
18. The coldest region of atmosphere is
☒ A Troposphere ☐ B Stratosphere ☐ C Mesosphere ☐ D Thermosphere