Roll No. of Candidate : _____

CHEMISTRY **(INTERMEDIATE PART-II) 421 - (II)** **Paper II** **(Group – I)**

Time: 20 Minutes **OBJECTIVE ..... Code: 8483** **Marks: 17**

Note: You have four choices for each objective type question as A, B, C and D. The choice which you think is correct, fill that circle in front of that question number. Use marker or pen to fill the circles. Cutting or filling two or more circles will result in zero mark in that question. Attempt as many questions as given in objective type question paper and leave others blank.

1. 1. The strength of binding energy of transition elements depends upon:

(A) number of electron pairs (B) number of unpaired electrons

(C) number of neutrons (D) number of protons

2. Which compound shows maximum hydrogen bonding with water?

(A) CH_3OH (B) C_2H_5Cl (C) CH_3-O-CH_3 (D) C_6H_5OH

3. SN_2 reactions can be best carried out with

(A) primary alkyl halides (B) secondary alkyl halides

(C) tertiary alkyl halides (D) all of these

4. The solution of which acid is used for seasoning of food?

(A) formic acid (B) acetic acid (C) benzoic acid (D) butanoic acid

5. The oxide of Beryllium is

(A) acidic (B) basic (C) amphoteric (D) none of these

6. Which of the following compounds will not give iodoform test on treatment with I_2 / NaOH?

(A) acetaldehyde (B) acetone (C) butanone (D) 3-pentanone

7. Which of the following is not a fatty acid?

(A) propanoic acid (B) acetic acid (C) phthalic acid (D) butanoic acid

8. Which is the strongest acid?

(A) $HClO$ (B) $HClO_2$ (C) $HClO_3$ (D) $HClO_4$

9. Which element belongs to group IVA of the periodic table?

(A) barium (B) iodine (C) lead (D) oxygen

10. Micro-nutrients are required in quantity ranging from

(A) 4 – 40 g (B) 6 – 200 g (C) 6 – 200 kg (D) 4 – 40 kg

11. Select from the following the one which is alcohol

(A) CH_3-CH_2-OH (B) CH_3-O-CH_3 (C) CH_3COOH (D) CH_3-CH_2-Br

12. Which of the following species has the maximum number of unpaired electrons?

(A) O_2 (B) O_2^+ (C) O_2^- (D) O_2^{2-}

13. Which one of the following has the lowest melting point?

(A) Be (B) Mg (C) Ca (D) Sr

14. Which one of the following compounds will react with Fehling's solution?

(A) C_2H_5COOH (B) CH_3CHO (C) CH_3COOH (D) CH_3COCH_3

15. β - β′- dichloroethyl sulphide is commonly known as

(A) laughing gas (B) mustard gas (C) phosgene gas (D) bio-gas

16. The benzene molecule contains

(A) three double bonds (B) two double bonds

(C) one double bond (D) delocalized π-electron charge

17. The halogen with the lowest melting and boiling points is

(A) fluorine (B) chlorine (C) bromine (D) iodine