1. Action of hydrogen iodide on anisole gives,

- (A) Phenol and iodomethane
- (B) Iodobenzene and methanol
- (C) Phenol and methanol
- (D) Iodobenzene and iodomethane

2. β -pleated sheets of polypeptide chains are present in

- (A) Secondary structure
- (B) Primary structure
- (C) Tertiary structure
- (D) Quaternary structure

3. Which of the following is NOT an antiseptic compound?

- (A) Boric acid
- (B) Iodoform
- (C) Hydrogen peroxide
- (D) Potassium sulphite

4. When propene reacts with HCl in presence of peroxide, the product is

- (A) 1-chloro propane
- (B) 1,1-dichloro propane
- (C) 2-chloro propane
- (D) 1,2-dichloro propane
- 5. Which of the following polymers is used in paints ?
- (A) Gutta percha
- (B) Melamine



(C) Buna-S

(D) Novolac

6. The conductivity of an electrolytic solution decreases on dilution due to

- (A) Decrease in number of ions per unit volume
- (B) Increase in ionic mobility of ions
- (C) Increase in percentage ionisation
- (D) Increase in number of ions per unit volume

7. Which of the following methods is used to separate wolframite and stannic oxide present in cassiterite?

- (A) Hydraulic washing using Wilfley table
- (B) Froth flotation
- (C) Hydraulic classifier
- (D) Magnetic separation

8. Action of hydrogen iodide on anisole gives,

- (A) Phenol and iodomethane
- (B) Iodobenzene and methanol
- (C) Phenol and methanol
- (D) Iodobenzene and iodomethane

9. When $CuSO_4$ solution in water is treated with concentrated HCl it turns

- (A) Violet
- (B) Yellow
- (C) Purple
- (D) Green



10. What happens when ionic hydrides of S-block elements in molten state are electrolysed?

- (A) Hydride ion migrates at cathode
- (B) Dihydrogen is liberated at cathode
- (C) Hydride ion reforms metal hydride
- (D) Dihydrogen is liberated at anode

11. How many isoprene units are present in abscisic acid?

- (A) Three
- (B) Two
- (C) Four
- (D) Five

12. Bassemerization is used in the extraction of

- (A) Iron
- (B) Copper
- (C) Aluminium
- (D) Zinc

13. Which among the following is NOT a semi-synthetic polymer

- (A) Terylene
- (B) Viscose-Rayon
- (C) Cupra-ammonium silk
- (D) Acetate Rayon

14. Which among the following group 15 elements does not exhibit allotropy?

- (A) N
- (B) As



- (C) Sb
- (D) Bi

15. Which among the following solids shows the Frenkel defect?

- (A)NaCl
- (B) C_sCl
- (C) KCl
- (D) AgCl

16. For the conversion of oxygen to ozone in the atmosphere, nitric oxide in gaseous phase acts as

(A) Enzyme catalyst

- (B) Inhibitor
- (C) Homogeneous catalyst
- (D) Heterogeneous catalyst

16. Calculate Vant Hoff factor for 0.2 m aqueous solution of KCl which freezes at -0.680° C. (K_f=1.86 K kg mol⁻¹)

- (A) 3.72
- (B) 1.83
- (C) 6.8
- (D) 1.86

17. \propto - butylene when subjected to hydroboration oxidation reaction, yields

- (A) iso-butyl alcohol
- (B) sec-butyl alcohol
- (C) n-butyl alcohol
- (D) tert-butyl alcohol



18. What is the percentage of carbon in urea? (At mass C=12, H=1,

- N=14,0=16)
- (A) 20%
- (B) 26.6%
- (C) 6.67%
- (D) 46.0%

19. Which among the following compounds is used as a selective weed killer?

- (A) Picric acid
- (B) 2,4-dichlorophenoxy acetic acid
- (C) 2,4,6- trichlorophenoxy acetic acid
- (D) Salol

20. Which among the following compounds is used to decaffeinate coffee?

- (A) Iodoform
- (B) Carbon tetrachloride
- (C) Methylene dichloride
- (D) Chloroform

21. Mandelonitrile is obtained by the reaction between hydrogen cyanide and

- (A) Propionaldehyde
- (B) Benzaldehyde
- (C) Acetaldehyde
- (D) Acetone

22. The ionic charges on chromate ion and dichromate ion respectively is

- (A) -2,-2
- (B) -3,-2



- (C) -2,-4
- (D) -4,-2
- 23. Which of the following sets of components form homogeneous mixture?
- (A) Phenol + Water
- (B) Sugar + Benzene
- (C) Silver chloride + Water
- (D) Ethyl alcohol + Water

24. Which of the following bonds has maximum bond length?

- (A) C O
- (B) C H
- (C) C C
- (D) C N
- 25. The bacteriostatic antibiotic from the following is

- (A) Tetracycline
- (B) Aminoglycosides
- (C) Penicillin
- (D) Ofloxacin

26. Which among the following solids shows the Frenkel defect?

- (A) NaCl
- (B) C_sCl
- (C) KCl
- (D) AgCl



27. Calculate the difference between heat of combustion of carbon monoxide gas at constant pressure and at constant volume at $27^{\circ}C$? (R = 2Cal K⁻¹ mol⁻¹)

- (A) 54 cal
- (B) -600 cal
- (C) -300 cal
- (D) 27 cal

28. The conductivity of an electrolytic solution decreases on dilution due to

- (A) Decrease in number of ions per unit volume
- (B) Increase in ionic mobility of ions
- (C) Increase in percentage ionisation
- (D) Increase in number of ions per unit volume

29. Which among the following compounds is used as a selective weed killer?

- (A) Picric acid
- (B) 2,4-dichlorophenoxy acetic acid
- (C) 2,4,6- trichlorophenoxy acetic acid
- (D) Salol

30. Which of the following polymers is used in paints?

- (A) Gutta percha
- (B) Melamine
- (C) Buna-S
- (D) Novolac



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