Date Planned : __ / __ / __	Daily Tutorial Sheet-2	Expected Duration : 90 Min
Actual Date of Attempt : __ / __ / __	Level-1	Exact Duration :_____

16. Extra pure N_2 can be obtained by heating :

(A) NH_3 with CuO **(B)** NH_4NO_3

(C) $(NH_4)_2Cr_2O_7$ **(D)** $Ba(N_3)_2$

17. Which of the following halogen oxide is used for estimation of carbon monoxide in automobile exhibits gases ?

(A) Cl_2O_7 **(B)** I_2O_5 **(C)** ClO_2 **(D)** BrO_3

18. An explosive compound (A) reacts with water to produce NH_4OH and HOCl. Then, the compound (A), is :

(A) TNG **(B)** NCl_3 **(C)** PCl_3 **(D)** HNO_3

19. The atomicity of phosphorus is X and the PPP bond angle in the molecule is Y. What are X and Y ?

(A) X = 4, Y = 90° **(B)** X = 4, Y = 60°

(C) X = 3, Y = 120° **(D)** X = 2, Y = 180°

20. H_3PO_3 has ..... Non-ionisable P – H bonds.

(A) 3 **(B)** 1 **(C)** 2 **(D)** None of these

21. Which is tribasic acid ?

(A) H_3PO_2 **(B)** H_3PO_4 **(C)** $H_4P_2O_7$ **(D)** H_3PO_3

22. The catalyst used in manufacture of ammonia is :

(A) V_2O_5 **(B)** Pt **(C)** Fe **(D)** $Ni(CO)_4$

23. What are the products obtained when ammonia is reacted with excess chlorine ?

(A) N_2 and NCl_3 **(B)** N_2 and HCl

(C) N_2 and NH_4Cl **(D)** NCl_3 and HCl

24. Zinc and cold dil. HNO_3 reacts to produce :

(A) NO **(B)** NO_2 **(C)** NH_4NO_3 **(D)** $Zn(OH)_2$

25. Pnicogens are the elements of group :

(A) 15 **(B)** 13 **(C)** 8 **(D)** Zero

26. The treatment Cu with dilute HNO_3 gives :

(A) N_2O **(B)** NO **(C)** NH_4^+ **(D)** NO_2

27. Which of the following oxy-acids of phosphorus is a reducing agent and monobasic ?

(A) H_3PO_2 **(B)** H_3PO_3 **(C)** H_3PO_4 **(D)** $H_4P_2O_6$

28. Pb reacts with dilute HNO_3 gives :

(A) NO **(B)** NH_4NO_3 **(C)** N_2O_5 **(D)** NO_2

29. Calcium cyanamide on treatment with steam produces :

(A) $NH_3 + CaO$ **(B)** $NH_3 + CaHCO_3$

(C) $NH_3 + CaCO_3$ **(D)** $NH_3 + Ca(OH)_2$

30. $CH_2(COOH)_2 \xrightarrow{P_4O_{10},\ 150°C} X$

Compound (X) is :

(A) malonic acid **(B)** carbon suboxide

(C) tartaric acid **(D)** acetic acid