Date Planned : __ / __ / __	Daily Tutorial Sheet-2	Expected Duration : 90 Min
Actual Date of Attempt : __ / __ / __	JEE Advanced (Archive)	Exact Duration :_____

16. Give reason : In the preparation of hydrogen iodide from alkali metal iodides, phosphoric acid is preferred to sulphuric acid. ▶ **(1982)**

17. Give reason : Orthophosphoric acid, (H_3PO_4) is tribasic, but phosphorous acid, (H_3PO_3) is dibasic. **(1982)**

18. Write balanced equation for the reaction : White phosphorus (P_4) is boiled with a strong solution of sodium hydroxide in an inert atmosphere. **(1982)**

19. Which of the following statements about anhydrous aluminium chloride is correct ? **(1982)**
   (A) it exists as $AlCl_3$ molecules **(B)** it is not easily hydrolysed
   (C) it sublimes at 100°C under vacuum **(D)** it is a strong Lewis base

20. Moderate electrical conductivity is shown by : **(1982)**
   (A) silica **(B)** graphite **(C)** diamond **(D)** carborundum

21. Chlorine acts as a bleaching agent only in presence of : **(1983)**
   (A) dry air **(B)** moisture **(C)** sunlight **(D)** pure oxygen

22. Give reason : A bottle of liquor ammonia should be cooled before opening the stopper. **(1983)**

23. A gas that cannot be collected over water is : ▶ **(1985)**
   (A) N_2 **(B)** O_2 **(C)** SO_2 **(D)** PH_3

24. Nitrogen dioxide cannot be obtained by heating : **(1985)**
   (A) KNO_3 **(B)** $Pb(NO_3)_2$ **(C)** $Cu(NO_3)_2$ **(D)** $AgNO_3$

25. Give reason : Anhydrous HCl is a bad conductor of electricity but aqueous HCl is a good conductor of electricity. **(1985)**

26. Give reason : Fluorine cannot be prepared from fluorides by chemical oxidation. **(1985)**

27. Write balanced equation for the reaction : Ammonium sulphate is heated with a mixture of nitric oxide and nitrogen dioxide. **(1985)**

28. Write balanced equation for the reaction : Hydrogen sulphide is bubbled through an aqueous solution of sulphur dioxide. **(1985)**

29. Write balanced equation for the reaction : Tin is treated with concentrated nitric acid. ▶ **(1985)**

30. Write balanced equation for the reaction : Pb_3O_4 is treated with nitric acid. **(1985)**