Section A

I) Answer all the questions by selecting the most suitable alternative. **(5×1 = 5M)**

1) Hydrolysis of interhalogen compound (XX'_3) produces_____
   (a) HX′ + Hypohalous acid (b) HX′ + Halous acid (c) HX′ + Halic acid (d) none

2) Oxidation state of 'N' in Lithium nitride is_____
   (a) +1 (b) +3 (c) -3 (d) -1

3) Which of the following oxoacids of Suphur contains peroxy bond
   (a) $H_2S_2O_8$ (b) H_2SO_3 (c) $H_2S_2O_7$ (d) H_2SO_4

4) Hybridization and shape of XeO_2F_2
   (a) sp^3 & Trigonal pyramidal (b) sp^3d & Sea-saw (c) sp^3d^2 & octahedral (d) sp^3 & Td

5) Match the minerals (Column A) with the elements occur in it (column B)

Column-A	Column-B
i) Cryolite	Helium
ii)Epsom salt, copper pyrites, galena	Fluorine
iii) Pitchblende and monazite	Sulphur

   (a) i-c ; ii-b ; iii-a (b) i-a ; ii-c ; iii-b (c) i-a ; ii-b ; iii-c (d) i-b ; ii-c ; iii-a

Section B

II) Answer any TWO of the following questions. **(2 × 5M = 10M)**

6) a) Explain the manufacture of nitric acid by Ostwald's process (3M)
   b) Write the reactions for the following (2M)
   i) Acetic acid reacts with Phosphorus pentachloride
   ii) Reaction of sulfuric acid with a metal and also with a non-metal

7) a) Define secondary battery. Write the cell reactions which occur in lead storage battery
   i) When battery in use ii) When the battery is on charging (3M)
   b) Explain about the hydrides of 16 group elements. (2M)

8) a) Write the preparation, properties and geometries of Xenon-Fluorine compounds. (4M)
   b) Although electron gain enthalpy of fluorine is less negative as compared to chlorine, fluorine is a stronger oxidising agent than chlorine. Why? (1 M)

**********" End of the Paper" **********