

Name: _____						
Subject: Chemistry		Class: 12 <sup>th</sup>	Time: 60 minutes	Total Marks:	30	
Chapter No.5		MJDexpert.com			Obtained marks	

**Note:** Please attempt any 7 short questions from Question 2. Also, attempt both parts (a and b) of Question 3. Cutting and removal of any content is strictly prohibited.

### Objective-Section

**Q. 1 Encircle the correct answer by filling the appropriate circle. (8x1=8)**

- Chlorine heptaoxide ( $\text{Cl}_2\text{O}_7$ ) reacts with water to form**  
 (A) Hypochlorous acid (B) Chloric acid (C) Perchloric acid (D) Chlorine and Oxygen
- Hydrogen bond is strongest between the molecules of**  
 (A) HF (B) HCL (C) HBr (D) H<sub>2</sub>O
- Which is the strongest acid**  
 (A) HClO (B) HClO<sub>2</sub> (C) HClO<sub>3</sub> (D) HClO<sub>4</sub>
- Which of the following is the strongest acid in the solution?**  
 (A) HF (B) HCl (C) HBr (D) HI
- Which one is chlorous acid?**  
 (A) HClO (B) HClO<sub>2</sub> (C) HClO<sub>3</sub> (D) HClO<sub>4</sub>
- Out of elements of group VII-A, the highest melting and boiling points are shown by element**  
 (A) F<sub>2</sub> (B) I<sub>2</sub> (C) Cl<sub>2</sub> (D) Br<sub>2</sub>
- Which of the gases is used in bactericidal lamps?**  
 (a) Neon (b) Fluorine (c) Xenon (d) Chlorine
- Radon is used in radiotherapy. Its best source**  
 (a) Liquefaction of air (b) Radioactive decay of Ra-226  
 (c) Fractional distillation of mixture of noble bases (d) All

### Subjective-Section

**Q.2 Write short answers of any SEVEN of the following questions: (7x2=14)**

- Why HF is a weaker acid than HCl?
- On what factors Oxidizing Power of Halogens depends?
- Give four uses of bleaching powder.
- What is "Iodized salt"?
- What are freons? Give thin two uses.
- Write the reaction of Cl<sub>2</sub> with hot NaOH.
- Write four uses of bleaching powder.
- Write two uses of helium.

**Q.No.3 Long Question: (4+4=8)**

- What is the action of bleaching powder with (i) dil H<sub>2</sub>SO<sub>4</sub> (ii) NaOH
- Define disproportionation reaction with one example