

Step Academy official

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STUDENT NAME	
PAPER CODE	77810
TIME ALLOWED	40
Paper Date	25-02-2026



CLASS	New 1st Year (FSC/ICS)
SUBJECT	Chemistry
TOTAL MARKS	25
Paper Type	

Q1. Choose the correct answer.

5X1=5

1. Which halogen molecule has the strongest bond?

- (A) F_2 (B) Br_2 (C) I_2 (D) Cl_2

2. The volatility of the halogens (Group 17) generally _____ as you move down the group (from Fluorine to Iodine).

- (A) Increases (B) Decreases (C) Remains the same (D) Fluctuates unpredictably

3. Which one of the following halogen molecules has strongest oxidizing power?

- (A) Br_2 (B) F_2 (C) I_2 (D) Cl_2

4. Which one of the following halides has strongest reducing power?

- (A) F (B) Cl^- (C) Br^- (D) I^-

5. How does the acidic strength of hydrogen halides change as you move down the group?

- (A) It remains constant. (B) It decreases from HF to HI (C) It increases from HF to HI. (D) It fluctuates erratically.

Q2. Write short answers of the following questions.

5X2=10

1 . What is breakpoint chlorination?

2 . Which halogen is used as an antiseptic? How does it work?

3 . What is disproportionation reaction? Give an example.

4 . Why HF is weaker acid than HCl?

5 . What is meant by oxidizing agent?

Q3. Write detailed answers of the following questions.

2X5=10

1 . Describe and explain the relative thermal stabilities of the halogen hydrides in terms of bonds strength.

2 . Discuss the reducing power of halide ions with relevant reactions. Also explain the factors affecting it.