

# 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.