			DATE:		
	12th Science : Chemistry Elements of Groups 16, 17 and 18,		TIME: 1 hour		
Quality Checkers Only way to fulfill your dreams			MARKS: 25		
		SEAT NO:			
Note:-					
1. All Questions	are compulsory.				
2. Numbers on t	he right indicate full marks.				

Section A

Q.1 Select and write the correct answer.

1. Hydrofluoric acid

A) is a weak acidB) is a strong acidC) does not existD) is a good oxidizing agent

2. Which of the following orders regarding the acid character of hydrogen halides in the aqueous medium is correct?

 A) HCl < HBr < HI</th>
 B) HCl < HBr < HI</th>

 C) HCl > HBr > HI
 D) HCl > HBr < HI</td>

3. The number of elements in Group 18 is

A) 4	B) 5
C) 6	D) 7

4. Hydrides of group 16 are weakly acidic. The correct order of acidity is

A) $H_2O > H_2S > H_2Se > H_2Te$ B) $H_2Te > H_2O > H_2S > H_2Se$ C) $H_2Te > H_2Se > H_2S > H_2O$ D) $H_2Te > H_2Se > H_2O > H_2S$

Q.2 Answer the following.

- 1. Helium is used in diving equipment.
- 2. Why oxygen shows different anomalous properties than other elements of group 16?
- 3. How are the supersonic jet aeroplanes responsible for the depletion of ozone layers?

Section B Attempt any Four

Q.3	Write the order of thermal stability of hydrides of group 17 elements.	(2)
Q.4	Write the reaction of conc. H ₂ SO ₄ with sugar.	(2)
Q.5	What is the action of chlorine on the following: (a) Fe (b) Excess of NH ₃ ?	(2)
Q.6	List down the chemical properties of XeF ₂	(2)
Q.7	Give reasons : Nitrogen does not form pentahalide.	(2)
Q.8	Draw structures of XeF ₆ , XeO ₃ , XeOF ₄ , XeF ₂	(2)

Section C Attempt any Two

(3)

(4)

Q.9	Write a short note on: Physical properties of Group 17 elements.							(3)	
Q.10	What are the characteristics of inter halogen compounds?							(3)	
Q.11	Complete the following table:								
	Element	0	0	S	F	Se	Se	Те	Cl
	Compound	Η ₂ Ο	OF ₂	H ₂ S	HF	SeO ₂	SeO ₃	TeF ₆	HOCI
	Oxidation State	-2	(a)	(b)	(c)	(d)	+6	(e)	(f)
Section D Attempt any One									
Q.12	2 Explain: Oxoacids of sulphur.							(4)	
Q.13	13 Draw the structure of ICl, ClF ₃ , BrF ₃ , BrF ₃ , ClF ₅							(4)	