SUBJECT CODE NO: - Y-2008 FACULTY OF SCIENCE AND TECHNOLOGY B.Sc. F.Y (Sem-II)

Examination March / April - 2023 Chemistry Paper- V Inorganic Chemistry

[Tin	ne: 3:00 Hours] [N	Max. Marks: 50
_	Please check whether you have got the right question paper.	\$3°
N. B	3 1) Attempt all questions	
	2) Illustrate your answer with suitable labelled diagram	
Q1	a) Give the structure and bonding in xeF ₂	10
	b) Explain the formation of SF ₄ molecule with the help of VSEPR theory.	. 0
	OR P	
	a) What is hybridisation? explain SP^2 hybridisation with suitable examp	ole 10
	b) Explanation the formulation of IF ₇	10
Q2	a) Write the properties of β & Y —particles	10
	b) Discuss in detail study about internal and external indicator	10
	OR OR	
	Write short notes on any two	20
	a) Packing fraction	
	b) Importance of indicator	
	c) Chemistry of Xenon	
	d) Homonuclear diatomic and Heteronuclear diatomic molecules	
Q3	Select the correct option for each of the following	10
X Y	1) Electronic configuration of He is	
	a) $1s^2$ b) $2s^2$ c) $3s^2$ d) $4s^2$	
	2) Bond order of He_2 is	
	a) Zero b) one c) Two d) Three	
	3)is the best complexing agent	
	a) NH_3 b) $O\overline{H}$ c) EDTA d) H_2O	
	4) The elements of group 18 are	
	a) Alkali metal b) Lanthanides c) Halogens d) Noble gas	
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5) The phenomeno	n of Radioactivity is give	en	35	
a) Henry Becque	A TOTAL CONTRACTOR OF THE PROPERTY OF THE PROP			
c) Panling & sla	ter d) None of these			
6) The shape of <i>Cl</i>			24 2B	
a) Triangular p	lanar b) T-shaped c)	V-shaped d) see-s	saw	By BE
7) The hybridised s	state of xeF_6 is			A B
a) SP^3 b) S	Sp^3d^2 c) SP^3d^3	d) SP^2		
8) The process of c	earbon dating is useful for	r calculating	-67	
a) Acid value	b) age c) Medicine val	70 . 78'		
9) VSEPR theory v	yas proposed by			3, 25,
	vas proposed by b) Rutherford c) Bohr	d) sidwick & Bowel		
			30 SINT	
10) <i>KMnO</i> ₄ isi a) Self		e) acid base d) n	one of these	
and the second s	o) Elimas	y dela case to h	one or these	
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