Ad	mn. No:	Section:	I	Name:	and the second of the second o		
Ans	swer all the questions by tick (	V) the appropriate box or w	vrite i	n the specified place.			
1	The correct order of acidity of the following compound A-C						
	F <sub>3</sub> C CF <sub>3</sub> CH <sub>3</sub>						
	B>C>A	C > B > A	K	A > C > B	T 7	A > B > C	
2	What will be the degrees of						
	0	1	(6)	2NO <sub>2</sub> (g)		TAY OLD - St. La posterior - St.	
3	The E <sup>0</sup> M+3/M+2 values for Cr	, Mn, Fe and Co are -0.41,	+ 1.5	7, + 0.77. +1.97 V re	spective	3 ely at 298 K. For which one o	
****	these metals the change in o	oxidation state from +2 to -	+3 is e	easiest?	Т Т	The same of the same and the sa	
4	What will be the number of	1	v froz	en acetic acid		Mn \	
	1		7				
		2		3	Trans-	4	
5	Among the carbocations given below						
	7	H					
		A		В С			
	A is homoaromatic, B is	antiaromatic and C is	1	A is antiaromatic, B	is arom	natic, C is homoaromatic	
	aromatic	, e	-				
	A is aromatic, B is antiare homoaromatic	omatic and <b>C</b> is		A is homoaromatic, B is aromatic and C is antiaromatic			
6	In the compound given below, the hydrogen marked A and B are:						
	Ph H <sub>B</sub>						
	HOOC-N						
	H <sub>A</sub> Ph						
	Homotopic	Isotopic	/	Enantiotopic		Diastereotopic	
7	The spin only magnetic moment of the complex $K_4[Fe(x)_6]$ is 4.9 BM (X is uni-negative monodentate ligand). Which of						
	The complex will us do see a few seeds of the complex will us do seed to see a few seeds of the complex will us do seed to seed to see a few seeds of the complex will us do seed to see a few seeds of the complex will us do seed to see a few seeds of the complex will us do seed to see a few seeds of the complex will us do seed to see a few seeds of the complex will us do seed to see a few seeds of the complex will us do seed to see a few seeds of the complex will us do seed to see a few seeds of the complex will us do seed to see a few seeds of the complex will us do seed to see a few seeds of the complex will us do seed the complex will us do see a few seeds of the complex will us do see a few seeds of the complex will us do see a few seeds of the complex will us do see a few seeds of the complex will us do see a few seeds of the complex will us do seed the complex will us do seed the complex will us do seed the complex will use a few seeds of the complex will use a few seeds of th						
	John-Teller distortion	field ligand	5	low-spin complex	1	CFSE = -0.4Δo + P	
8	Which of the following is/are	correct					
	$V = \frac{1}{2\pi} \sqrt{\frac{k}{\mu}}$	$v = \frac{1}{2\pi c} \sqrt{\frac{\kappa}{\mu}}$		$\overline{V} = \frac{1}{2\pi} \sqrt{\frac{K}{\mu}}$		$\overline{V} = \frac{1}{2\pi c} \sqrt{\frac{\mu}{K}}$	
9	The complex [Co(X) <sub>6</sub> ]Cl <sub>3</sub> (X is a neutral monodentate ligand) does not show any John-Teller distortion. Calculate the						
	CFSE of the molecule						
	CFSE = -2.4 do + 2P						
10	The rotation of an antically a						
10	The rotation of an optically pure compound of 100 mg in 1 mL of water and measured in a quartz tube of 5 cm was $(-3^{\circ})$ . Calculate the Specific rotation of the compound.						
	Tall						
	$[ad]_{sp} = \frac{[ac]_{obs}}{C(9/mi) \times l(dm)} = \frac{-3^{\circ}}{O(1 \times 0.5)} = [-60^{\circ}]_{aws}$						
C=100mg/1ml=0.19/ml; l=5cm=0.5dm							
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