SUBJECT CODE NO: Y-2159

FACULTY OF SCIENCE AND TECHNOLOGY

B. Sc (PATTERN-2013) (T.Y SEM - VI)

Examination April / May - 2024

Chemistry Paper -XVI (Inorganic Chemistry)

Tim	e: 1:30	Hours]		[Max. Marks: 50]
1	GIAN	Please check wheth	her you have got the right question pape	er.
l. B		1) Attempt all qu	estions.	
1	WAR.	2) Draw diagram	whenever necessary.	
	TANK	3) Use Only blue	or black pen for writing.	
31		_^/\/		
01	and a	Explain the solitting of d-	orbital in octahedral complexes.	10
4	111		preparation, properties and uses of orga	
	,	compounds.	proparation, properties and asses of orga	
		compounds.	OR	
	c)	What is 10 Da? Discuss the	he factors affecting on 10 Dq.	10
			a of [Ti (H ₂ O) ₆] ³⁺ complexion.	10
	u)	Explain electronic Speed	a of [11 (1120)6] complexion.	10
-	,		raka tahun dipiteria politikan	10
Q2			t between thin layer and paper chromat	
	b)	Explain metalloporphyrin	s with special reference to haemoglobin	n. 10
			OR	20
	c)	Write a short note on any	병원 - 1.80 : 1.60 : 1.60 : 1.60 : 1.60 : 1.60 : 1.60 : 1.60 : 1.60 : 1.60 : 1.60 : 1.60 : 1.60 : 1.60 : 1.60 : 1	20
		i) limitations of VB7	Section 5. The section of the Sectio	
		ii) Rf value	galificity — Kengawan Jengg Bi	
		iii) Biological role &		
		iv) Types & electroni		
			s of organo aluminium compounds	
		vi) Spectrochemical s	eries	
			MA	TAVIOL
Q3	Multip	le choice questions.		10
				DARY IS
	1)	Give the symmetry symbol	ol for dx ² -y ² and dz ² orbital	RARY
		a) t ₂₉	b) e ₉	141
		c) a19	d) t ₁₄	AM-4153
				ANE
	2)	The energy of t29 orbitals	in octahedral complexes decreases by	
		a) -6 Dq	b) -4 Dq	
		c) +6 Dq	d) +4 Dq	

3)	The ground state team symbol for d ⁵ System					
	a) ⁶ S	b) ² D				
	c) ³ F	d) ⁴ F				
		Marie Carlos				
4)	The selection rules used for d-d transition					
	a) Laporte selection rule	b) Spin selection rule				
	c) The orbital rule	d) None of these				
5)	The example of metal carbonyl is	MAHAVIOL				
	a) [Fe (CO)s]	b) [Co (en) ₃] ³⁺				
	c) [Ni (CN) ₄] ² -	d) None of these				
-	Andrew Miller	d) None of these				
6)	Organolithium and Formaldehyde inter					
	a) Primary alcohol	b) Secondary alcohol				
	c) Tertiary alcohol	d) All of the above				
7)	The metal involved in Nitrogen fixation is					
")	a) Si	b) Al				
	c) Mo	d) Na				
	C) MO					
8)	What are the biological role of Ca metal in non-enzymatic processes?					
		b) Trigged for muscle contraction				
	c) Initiation blood clotting	d) All of these				
9)	chromatography is a physical method that is used to separate and analyses					
	a) Simple mixtures	b) Complex mixtures				
	c) Viscous mixtures	d) Metals				
10	The mobile phase in chromatography of					
	a) Gas only	b) Liquid only				
1	c) Solid	d) Gas and liquid				
13						
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