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		Tenkasi District Common Second Mid Term Test - 2024
Standard 11		
Time: 1.30 Hrs. CHEMISTRY Marks: 35		
PART-I		
I.		bose the correct answer: 5×1=5
	1)	Lithium shows diagonal relationship with
		a) Sodium b) Magnesium c) Calcium d) Aluminium
	2)	Formula of Washing soda
		a) $Na_2CO_3.7H_2O$ b) $Na_2CO_3.10H_2O$ c) $Na_2CO_3.H_2O$ d) Na_2CO_3
	3)	which of the following compounds will not undergo Friedal - Crafts reaction
		edsity?
		a) Nitro benzéne b) Toluene c) Cumene d) Xylene
	4)	Bond order of a species is 2.5 and the number of electrons in its bonding
		molecular orbital is formed to be 8. The number of electrons in the antibonding
		molecular orbital is
	5	a) three b) four c) zero d) can not be calculated
	5)	According to Raoults law the relative lowering of vapour pressure of a solution
		is equal to
		a) mole fraction of solvant b) mole fraction of solute
		c) number of moles of solute d) number of moles of solvent
PART - II		
п.	Ans	swer any three of the following: [O No. 10 is commutated]
	6)	How is plaster of paris prepared?
		What is relative lowering of vapour pressure?
		Which bond is stronger σ or π ? Why?
		Write Sabatier - Sendersens reactions.
		Phenol dimerises in benzene having Van't Hoff factor 0.54. What is the
		degree of association?

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PART-III Tenkass Dist.

III. Answer any three of the following: [Q.No. 15 is compulsory] 3×3=9

- 11) Explain the distinctive behaviour of beryllium.
- 12) What is molal depression constant? Does it depend on nature of the solute?
- 13) Write the limitations of Henry's law.
- 14) In CH₄, NH₃ and H₂O, the central atom undergoes sp³ hybridisation. Yet their bond angles are different. Why?
- 15) Explain Anti-Markovni Koff's rule (or) Peroxide effect with example.

Kindly Send Me Your Key Answer to Our email id - Padasalai.net@gmail.com

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2 PART - IV

IV. Answer any three of the following:

- 16) Discuss the similarities of between beryllium and aluminium.
- 17) What is Osmotic pressure. Explain the determination of molar mass from Osmotic pressure.
- 18) Discuss the formation of O_2 molecule using MO theory.
- 19) Describe Fajan's rule.
- 20) Write short notes on the following:
 - i) Wartz Fitting reaction
 - ii) Polymerisation reaction
 - iii) Friedel craft's reaction

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