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SECTION - B (35 Marks)

Answer ALL questions

ALL questions carry EQUAL Marks

(5 × 7 = 35)

Module No.	Question No.	Question	K Level	CO
1	11.a.	State and explain the following with an example i) Aufbau principle ii) Pauli's exclusion rule	K3	CO1
		(OR)		
	11.b.	Distinguish between Arrhenius and Bronsted-Lowry theory of acids and bases.		
2	12.a.	Discuss the method of isolation and uses of piperine.	K3	CO2
		(OR)		
	12.b.	Write the preparation and uses of terylene and polycarbonate.		
3	13.a.	Define the following terms with an example i) Molarity ii) Normality iii) Mole fraction	K3	CO3
		(OR)		
	13.b.	Describe the principle and application of column chromatography.		
4	14.a.	Derive the rate constant for first order reactions.	K4	CO4
		(OR)		
	14.b.	Discuss the mechanism of enzyme catalyst reaction.		
5	15.a.	What are pollutants? Discuss the sources and effects of air pollutants.	K3	CO5
		(OR)		
	15.b.	Write note on the following. i) Acid Rain ii) Chemical oxygen demand		

SECTION -C (30 Marks)

Answer ANY THREE questions

ALL questions carry EQUAL Marks

(3 × 10 = 30)

Module No.	Question No.	Question	K Level	CO
1	16	Explain about the different types of orbitals and their shapes.	K5	CO1
2	17	Write the preparation, properties and uses of benzene.	K4	CO2
3	18	Explain steam distillation process with a neat diagram.	K5	CO3
4	19	Discuss the following terms with suitable examples. i) Auto catalyst ii) Promoters iii) Catalytic poison iv) Negative catalyst	K4	CO4
5	20	Describe the primary, secondary and tertiary water treatment process.	K3	CO5

Z-Z-Z

END