

Course Outcome	Bloom's K-level	Q. No.	SECTION - B (5 X 5 = 25 Marks) Answer <u>ALL</u> Questions choosing either (a) or (b)
CO1	K3	11a.	What are bonding, anti-bonding and non-bonding orbitals? (OR)
CO1	K3	11b.	Give the medicinal applications of radioisotopes.
CO2	K3	12a.	Write a note on LPG and oil gas. (OR)
CO2	K3	12b.	Write the synthesis and uses of silicones.
CO3	K4	13a.	Write the hybridisation and geometry of benzene. (OR)
CO3	K4	13b.	Write the mechanism of nitration in aromatic compounds.
CO4	K4	14a.	Examine the structure and uses of paracetamol and aspirin (OR)
CO4	K4	14b.	Illustrate artificial sweetener with example.
CO5	K5	15a.	Determine unknown concentration of the analyte using Volumetric principles. (OR)
CO5	K5	15b.	Interpret the principle and application of paper chromatography.

Course Outcome	Bloom's K-level	Q. No.	SECTION - C (5 X 8 = 40 Marks) Answer <u>ALL</u> Questions choosing either (a) or (b)
CO1	K3	16a.	Give the molecular orbital diagram of nitrogen and discuss about its bond order and magnetic properties. (OR)
CO1	K3	16b.	Describe nuclear fission and fusion reactions with examples.
CO2	K4	17a.	What are meant by natural gas and water gas? (OR)
CO2	K4	17b.	Write a note on phosphate fertilizers.
CO3	K4	18a.	Analyze a brief notes on hyper conjugation with example. (OR)
CO3	K4	18b.	Clarify preparation and properties of pyrrole and pyridine.
CO4	K5	19a.	Explain the structure and uses of penicillin. (OR)
CO4	K5	19b.	Discuss about Freon and Teflon.
CO5	K5	20a.	Discuss purification and separation techniques with examples. (OR)
CO5	K5	20b.	Evaluate the principle and application of column chromatography.