

**Cont...**

**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.	Analyze the role of pepsinogen in protein digestion and explain why it is secreted in an inactive form.	K4	CO1
		(OR)		
	11.b.	List the role of antioxidants in preventing oxidative stress and their implications for human health.		
2	12.a.	Evaluate the significance of the histological structure of taste papillae in the function of taste perception.	K5	CO2
		(OR)		
	12.b.	Evaluate the importance of auditory pathways in sound localization and how their impairment affects hearing.		
3	13.a.	Assume the role of the anterior pituitary in regulating other endocrine glands.	K4	CO3
		(OR)		
	13.b.	Analyze the adrenal medulla's contribution to the body's stress response and its related disorders.		
4	14.a.	Evaluate the role of IgE in allergic reactions and how its overproduction leads to hypersensitivity disorders.	K5	CO4
		(OR)		
	14.b.	Explain how does chronic stress impact immune function, and what mechanisms are involved in stress-induced immune suppression.		
5	15.a.	Discuss bio transformation of drugs.	K6	CO5
		(OR)		
	15.b.	Elaborate the mechanisms by which oral hypoglycemic drugs can contribute to nutrient deficiencies and malnutrition.		

**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	Analyze the roles of gastrin and cholecystokinin in regulating digestive processes.	K4	CO1
2	17	Elaborate the relationship between photochemical changes in rods and cones in the human visual system.	K6	CO2
3	18	Evaluate the hormonal regulation of calcium homeostasis by the thyroid and parathyroid glands including their modes of action.	K5	CO3
4	19	List the role of trace elements such as zinc and selenium in the regulation of immune responses.	K4	CO4
5	20	Justify how drug absorption can be influenced by the presence of food in the gastrointestinal tract.	K5	CO5

Z-Z-Z

END