

# **PSG COLLEGE OF ARTS & SCIENCE (AUTONOMOUS)**

**BSc DEGREE EXAMINATION DECEMBER 2025**  
**(Fourth Semester)**

**Branch - NUTRITION, FOOD SERVICE MANAGEMENT AND DIETETICS**  
**BIO CHEMISTRY**

Time: Three Hours

Maximum: 75 Marks

**SECTION-A (10 Marks)**

**Answer ALL questions**

**ALL** questions carry **EQUAL** marks

$$(10 \times 1 = 10)$$

**Cont.**

**SECTION - B (35 Marks)**

Answer ALL questions

ALL questions carry EQUAL Marks

 $(5 \times 7 = 35)$ 

Module No.	Question No.	Question	K Level	CO
1	11.a.	Explain the glycolysis.  (OR)	K2	CO1
	11.b.	Explain about the glycogenolysis.		
2	12.a.	Select the catabolism of cholesterol.  (OR)	K3	CO2
	12.b.	Identify the structure of lecithin.		
3	13.a.	Distinguish the chemical properties of amino acids.  (OR)	K4	CO3
	13.b.	Contrast the transportation of ammonia.		
4	14.a.	Discover the structure and function of ATP.  (OR)	K4	CO4
	14.b.	Categorize the hemoglobin synthesis.		
5	15.a.	Assess the paper chromatography.  (OR)	K5	CO5
	15.b.	Evaluate the Role of B vitamins in the metabolism of proteins.		

**SECTION - C (30 Marks)**

Answer ANY THREE questions

ALL questions carry EQUAL Marks

 $(3 \times 10 = 30)$ 

Module No.	Question No.	Question	K Level	CO
1	16	Categorize the structure and properties of polysaccharides.	K4	CO1
2	17	Contrast the Biosynthesis and catabolism of cholesterol.	K4	CO2
3	18	Criticize the classification of protein based on composition and solubility.	K5	CO3
4	19	Appraise the structure and functions of ATP.	K5	CO4
5	20	Formulate the Michaelis Menton equation.	K6	CO5

Z-Z-Z END