

PSG COLLEGE OF ARTS & SCIENCE
(AUTONOMOUS)

BSc DEGREE EXAMINATION MAY 2026
(Third Semester)

Branch – NUTRITION, FOOD SERVICE MANAGEMENT AND DIETETICS

HUMAN PHYSIOLOGY

Time: Three Hours

Maximum: 75 Marks

SECTION-A (10 Marks)

Answer ALL questions

ALL questions carry EQUAL marks

(10 × 1 = 10)

Module No.	Question No.	Question	K Level	CO
1	1	Ribosomes are the sites of _____ a) DNA synthesis b) Lipid synthesis c) Protein synthesis d) RNA degradation	K1	CO1
	2	The lifespan of a red blood cell is approximately ____ a) 60 days b) 90 days c) 120 days d) 150 days	K2	CO1
2	3	The right atrium receives deoxygenated blood from _____ a) Superior and inferior vena cava b) Pulmonary veins c) Aorta d) Coronary artery	K1	CO2
	4	The exchange of gases in the lungs takes place in ____ a) Bronchi b) Trachea c) Alveoli d) Bronchioles	K2	CO2
3	5	The tuft of capillaries inside the Bowman's capsule is known as _____ a) Glomerulus b) Nephron c) Collecting duct d) Loop of Henle	K1	CO3
	6	The process of swallowing is known as _____ a) Deglutition b) Digestion c) Peristalsis d) Absorption	K2	CO3
4	7	The colored part of the eye controlling pupil size is _____ a) Iris b) Cornea c) Lens d) Retina	K1	CO4
	8	The junction between two neurons is called _____ a) Reflex arc b) Synapse c) Dendrite d) Axon	K2	CO4
5	9	The cycle of changes in the endometrium and ovary in humans is called _____ a) Menstrual cycle b) Oestrous cycle c) Gestation d) Fertilization	K1	CO5
	10	The functional cells of testes that produce sperm are _____ a) Seminiferous tubules b) Leydig cells c) Sertoli cells d) Epididymal cells	K2	CO5

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.	Illustrate the structure and function of cell	K3	CO5
	(OR)			
	11.b.	Explain the ABO blood group system		
2	12.a.	Interpret the difference between systolic, diastolic, and pulse pressure.	K2	CO4
	(OR)			
	12.b.	Summarize on exchange of gases in lungs and tissues.		
3	13.a.	Sketch the structure of kidney and label it.	K4	CO3
	(OR)			
	13.b.	Explain the functions of digestive enzymes in the stomach and pancreas.		
4	14.a.	Illustrate the structure and function of human eye.	K2	CO4
	(OR)			
	14.b.	Classify neuron and its structure with a neat labeled diagram.		
5	15.a.	Sketch the structure of thyroid gland with illustration.	K4	CO1
	(OR)			
	15.b.	Categorize the structure and functions of islets of Langerhans.		

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	Elaborate on the characteristic and functions of bone tissues with diagrams.	K4	CO1
2	17	Construct the phases of cardiac cycle with illustration	K3	CO2
3	18	Categorize and discuss the mechanism of urine formation in detail.	K4	CO3
4	19	Explain the structure of the ear and its physiology of hearing.	K2	CO4
5	20	Appraise the structure of male and female reproductive system with its hormonal function.	K5	CO2