

PSG COLLEGE OF ARTS & SCIENCE
(AUTONOMOUS)

BSc DEGREE EXAMINATION DECEMBER 2025
(Fifth Semester)

Branch - ZOOLOGY
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	Most of the digestive processes occurs in a) Small intestine b) Large intestine c) Stomach d) Pancreas	K1	CO1
	2	Absorption of protein and lipid mainly occur in a) Intestine b) Stomach c) Oesophagus d) Buccal cavity	K2	CO2
2	3	Respiratory organs present in insects are _____ a) Gills b) Lungs c) Skin d) Tracheae	K1	CO1
	4	The average blood pressure in the human body _____ a) 100/80 b) 80/100 c) 120/80 d) 80/120	K2	CO2
3	5	Animals which excrete ammonia are known as _____ a) Ammonotelic b) Ureotelic c) Uricotelic d) None of the above	K1	CO1
	6	Osmoregulators carry out excretion of salt through _____ a) Gills b) Fins c) Scales d) Bladder	K2	CO2
4	7	The muscle structures which have alternate dark and light bands on it is a) Fascicles b) Sarcolemma c) Myofibrils d) Fascia	K1	CO1
	8	The structure of the eye which does not have blood vessels is a) Sclera b) Cornea c) Choroid d) Retina	K2	CO2
5	9	The neurons communicate with one another _____ a) Electrically b) Chemically c) Radio-wave-like impulses d) A and B	K1	CO1
	10	What is the basic unit of the nervous system ? a) Glial cell b) Meninges c) Neuron d) Cerebrospinal fluid	K2	CO2

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.	Interpret the functions of saliva in digestion.	K2	CO2
		(OR)		
2	11.b.	Show the steps involved in β oxidation process.	K3	CO3
	12.a.	Identify the respiratory pigments in man and explain its functions.		
		(OR)		
	12.b.	Explicate the blood components and its functions.		

Cont...

3	13.a.	Examine the excretory process of Ammonotelic animals.	K4	CO4		
	(OR)					
	13.b.	Analyse the osmoregulation process in freshwater animal				
4	14.a.	Categorize the types of muscles.	K4	CO4		
	(OR)					
	14.b.	Examine the structure of human eye.				
5	15.a.	Outline the role of pancreas in blood sugar level regulation.	K3	CO3		
	(OR)					
	15.b.	Biological clock is the master clock, coordinating all the biological functions – justify.				

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	Analyze the physiology of digestion in man.	K4	CO4
2	17	Organize the origin and conduction of heart beat with suitable illustration.	K4	CO4
3	18	Contrast the formation of urine in man.	K4	CO4
4	19	Examine the anatomy of ear and mechanism of hearing in humans.	K4	CO4
5	20	Inspect the mechanism of nerve impulse transmission.	K4	CO4