

PSG COLLEGE OF ARTS & SCIENCE
(AUTONOMOUS)

MSc DEGREE EXAMINATION DECEMBER 2024
(Second Semester)

Branch - ZOOLOGY

ANIMAL PHYSIOLOGY AND BIOCHEMISTRY

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	What is collagen? a) Fat b) Protein c) Carbohydrate d) None of the above	K1	CO1
	2	Which of the following has the thickest wall? a) Right ventricle b) Left ventricle c) Right atrium d) Left atrium	K2	CO1
2	3	This pressure facilitates filtration while urine is being formed. (a) filtrate hydrostatic pressure (b) osmotic blood pressure (c) capillary hydrostatic pressure (d) all of these	K1	CO2
	4	The total number of orifices for outgoing and incoming of urine through the bladder is (a) 2 (b) 3 (c) 4 (d) 5	K2	CO2
3	5	Which of the following structure of a synapse has the neurotransmitter? (a) Schwan cells (b) Synaptic cleft (c) Synaptic knobs (d) Synaptic vesicles	K1	CO3
	6	The synaptic vesicles a neuromuscular junction discharges_____. (a) adrenaline (b) epinephrine (c) acetylcholine (d) none of the above	K2	CO3
4	7	Which of the following is an example of epimers? a) Mannose & Glucose b) Glucose & Ribose c) Galactose & Mannose d) Glucose & Galactose	K1	CO4
	8	Which of the following are important for white blood cell recognition? a) Glycoproteins b) Glycosaminoglycans c) Glycolipids d) Proteoglycans	K2	CO4
5	9	The nature of an enzyme is (a) Lipid (b) Vitamin (c) Carbohydrate (d) Protein	K1	CO5
	10	This enzyme was first isolated and purified in the form of crystals. (a) Urease (b) pepsin (c) Amylase (d) Ribonuclease	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.	Write notes on components of blood.	K3	CO1
	(OR)			
	11.b.	State the role of respiratory pigments.		
2	12.a.	Describe about the urine formation process.	K4	CO2
	(OR)			
	12.b.	Narrate the structure of nephron.		
3	13.a.	Explain about the nerve impulse.	K4	CO2
	(OR)			
	13.b.	Expound the ultra structure of muscle.		
4	14.a.	Summarize the properties of carbohydrates.	K3	CO2
	(OR)			
	14.b.	List out the features of proteins.		
5	15.a.	Discuss the biological importance of enzymes.	K4	CO2
	(OR)			
	15.b.	Write an account on co enzymes.		

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	Elucidate the ECG and its medical uses.	K4	CO1
2	17	Trace out the function and types of Pheromones.	K4	CO2
3	18	Write an essay on Physiology of vision.	K5	CO3
4	19	Give an account on classification of carbohydrates.	K6	CO4
5	20	Explain about the types of enzymes.	K4	CO5

Z-Z-Z

END