

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

MSc DEGREE EXAMINATION DECEMBER 2025
(First Semester)

Branch - CLINICAL NUTRITION AND DIETETICS

PHYSIOLOGY IN HEALTH AND DISEASE

Time: Three Hours

Maximum: 75 Marks

SECTION-A (10 Marks)

Answer ALL questions

ALL questions carry **EQUAL** marks.

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

ALL questions carry EQUAL marks						
Module No.	Question No.	Question			K Level	CO
1	1	Which cellular organelle is responsible for energy production?	b) Mitochondria d) Lysosomes	a) Nucleus c) Ribosomes	K1	CO1
	2	Anemia is primarily related to which component in blood?			K2	CO1
2	3	The cardiac cycle starts with which event?	b) Ventricular filling d) Atrial relaxation	a) Atrial contraction c) Ventricular contraction	K1	CO2
	4	Hypoxia refers to:			K2	CO2
3	5	Which organ is directly involved in urine formation?	b) Kidney d) Heart	a) Liver c) Pancreas	K1	CO3
	6	The hormone responsible for promoting digestion in the stomach is:			K2	CO3
4	7	Menopause is due to decrease of which hormone?	b) Testosterone d) Insulin	a) Estrogen c) Growth hormone	K1	CO4
	8	The principal neurotransmitter released at neuromuscular junction is:			K2	CO4
5	9	Which disorder is characterized by progressive loss of memory?	b) Epilepsy d) Parkinson's disease	a) Dementia c) Stroke	K1	CO5
	10	The structure responsible for vision in the eye is:			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.	Point out the clinical manifestations of cancer. (OR)	K4	CO1
	11.b.	Classify the types of hypersensitivity.		
2	12.a.	Interpret on mechanism of respiration. (OR)	K5	CO2
	12.b.	Explain the origin and transmission of impulses through heart muscle.		
3	13.a.	Summarize on any two gastro intestinal disorders. (OR)	K5	CO3
	13.b.	Predict the pathophysiology of chronic kidney disease.		
4	14.a.	Depict the impact of hypo & hyper thyroidism. (OR)	K6	CO4
	14.b.	Explain the disorders of muscular system.		
5	15.a.	Outline the neurological dysfunction in Epilepsy and Parkinson's disease. (OR)	K6	CO5
	15.b.	Summarize the clinical disorders of eye.		

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	Outline about the types of auto immune diseases.	K4	CO1
2	17	Illustrate about obstructive pulmonary diseases.	K4	CO2
3	18	Summarize about the sources and action of gastro intestinal hormones.	K5	CO3
4	19	Evaluate the implications of hormonal imbalance due to estrogen and progesterone.	K5	CO4
5	20	Explain the structure of ear and mechanism of hearing.	K6	CO5

Z-Z-Z END