

QP Code:D141753		Total Pages:	Name:
			Register No.
SECOND SEMESTER (CUFYUGP) DEGREE EXAMINATION, APRIL 2026			
ZOOLOGY			
ZOO2MN101 INTRODUCTORY HUMAN PHYSIOLOGY			
2024 Admission onwards			
Maximum Time: 2 Hours			Maximum Marks: 70
Section A			
All Questions can be answered. Each Question carries 3 marks (Ceiling: 24 Marks)			
1	Compare the vital and non-vital organs in the human body.		
2	What is ECG? Write its clinical significance.		
3	Describe the respiratory problems in humans associated with COVID-19.		
4	Explain the conduction system of cardiac impulses in the human heart.		
5	Write a note on neurotransmitters.		
6	Describe the sliding filament theory of muscle contraction.		
7	What are the effects of sports on physical health?		
8	Comment on gastrointestinal hormones and provide examples.		
9	Prepare a schematic representation of the steps involved in the ornithine cycle.		
10	Describe two abnormal constituents of urine and their physiological implications.		
Section B			
All Questions can be answered. Each Question carries 6 marks (Ceiling: 36 Marks)			
11	Explain homeostasis with an example.		
12	Explain Hamburger phenomenon.		
13	Describe four cardiovascular diseases in humans.		
14	Briefly explain the biochemical changes that occur during muscle contraction.		
15	Explain the different types of synaptic transmission of impulses.		
16	Briefly explain the physiology of urine formation.		
17	Identify the major digestive glands in humans and mention the digestive enzymes produced.		
18	Write notes on: (a) cachexia, (b) bulimia nervosa, (c) anorexia nervosa		
Section C			
Answer any ONE. Each Question carries 10 marks (1x10=10 Marks)			
19	Explain the neural and chemical regulation of respiration in humans.		
20	What is a nerve impulse? Explain how a nerve impulse is transmitted along a nerve fiber.		

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Section A			
All Questions can be answered. Each Question carries 3 marks (Ceiling: 24 Marks)			
1	What are the characteristics of vital organs?		
2	Enumerate blood clotting factors.		
3	Describe mountain sickness.		
4	What are the factors that influence the transport of gases in the blood?		
5	Differentiate between rigor mortis and tetanus.		
6	Describe the different types of muscles in man.		
7	Describe the sensations of tingling and tickling.		
8	Comment on juxtaglomerular apparatus.		
9	Describe the process of haemodialysis.		
10	Analyze the physiological causes of vomiting.		
Section B			
All Questions can be answered. Each Question carries 6 marks (Ceiling: 36 Marks)			
11	Briefly describe the major components of the human body systems.		
12	Describe the structure of hemoglobin and its types.		
13	Distinguish between granulocytes and agranulocytes.		
14	Describe major proteins and their properties present in striated muscles.		
15	How is an action potential generated in a neuron?		
16	Explain various steps in Ornithine cycle.		
17	Briefly explain the regulation of gastric secretion.		
18	Write short notes on (a) obesity (b) flatulence (c) peptic ulcer		
Section C			
Answer any ONE. Each Question carries 10 marks (1x10=10 Marks)			
19	Explain carbon dioxide transport in the blood.		
20	What is a synapse? Explain the different types of synaptic transmission of impulses.		