



Sessional I (Even) Semester Examination March 2025

Roll no.....

Name of the Course semester: B. Pharm

Semester: 2nd Semester

Name of the Paper: Human Anatomy and Physiology-II

Paper Code: BP201-T

Time: 1.5hour

Maximum Marks: 30

Note:

- (i) This question paper contains three sections.
- (ii) All the sections are compulsory.

Section-A

Multiple choice questions.

10x1= 10 Marks

Q.NO.	QUESTIONS	CO's
1.	The conduction of a nerve impulse along a myelinated axon is called: a) Continuous conduction b) Saltatory conduction c) Passive conduction d) Diffusion	CO 1
2.	Which of the following protects the brain and spinal cord? a) Blood vessels b) Meninges c) Neurons d) Neurotransmitters	
3.	The largest part of the human brain responsible for higher cognitive functions is: a) Cerebellum b) Cerebrum c) Brainstem d) Thalamus	
4.	Medulla oblongata is responsible for controlling: a) Memory and learning b) Voluntary movement c) Heart rate and respiration d) Speech and language	



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5.	The spinal cord extends from: a) Medulla oblongata to the coccyx b) Cerebellum to the sacrum c) Medulla oblongata to the lumbar region d) Cerebrum to the thoracic region	
6.	Which nutrient is primarily absorbed in the large intestine? a) Proteins b) Carbohydrates c) Water and electrolytes d) Lipids	
7.	What is the primary function of bile secreted by the liver? a) Digestion of proteins b) Emulsification of fats c) Breakdown of carbohydrates d) Production of red blood cells	
8.	Identify the stomach cells responsible for acid production. a) Chief cells b) Parietal cells c) G-cells d) Goblet cells	CO 2
9.	Which of the following molecules serves as a high-energy phosphate reservoir in muscles? a) ATP b) Creatinine phosphate c) Glucose-6-phosphate d) NAD ⁺	
10.	Peristalsis is defined as: a) Voluntary contraction of muscles in the gastrointestinal tract b) Rhythmic, wave-like contractions that move food through the digestive system c) The breakdown of food by digestive enzymes d) The absorption of nutrients in the small intestine	



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Section-B

Short Questions: Attempt any two questions.

2x5 = 10 Marks

Q.NO.	QUESTIONS	CO's
1.	Explain in detail about the structure and functions of the meninges and cerebrospinal fluid (CSF).	CO 1
2.	Discuss the anatomy and functions of the salivary glands, pancreas, and liver in digestion.	CO 2
3.	Describe the spinal cord's gross structure and explain the roles of afferent and efferent nerve tracts in reflex activity.	CO 1

Section-C

Long questions: Attempt any one questions.

1x10 = 10 Marks

Q.NO.	QUESTIONS	CO's
1.	Classify the nervous system and explain in detailed about the structure and functions of brain.	CO 1
2.	Describe the anatomy and functions of gastrointestinal (GI) tract with special reference to stomach, highlighting its role in acid production and protein digestion.	CO 2