Name: **Enrolment No:**	

UPES

End Semester Examination, May 2025

Course: Human Anatomy and Physiology-II **Semester: II**

Program: B. Pharm **Duration: 03 Hours**

Course Code: BP201 T **Max. Marks: 75**

Instructions: Read the question paper carefully. Attempt the questions as mentioned.

SECTION A

(20Qx1M=20 Marks)

S. No.	Multiple Choice Questions/objective/one line	Marks	COs
Q 1	……part of the brain controls voluntary muscular movements. A) Cerebellum B) Cerebrum C) Brainstem D) Medulla	**1**	**CO1**
Q 2	The space between two neurons is called the: A) Axon B) Dendrite C) Synapse D) Node of Ranvier	**1**	**CO1**
Q 3	Myelin sheath is formed by: A) Astrocytes B) Microglia C) Schwann cells D) Ependymal cells	**1**	**CO1**
Q 4	……enzyme is secreted by the pancreas. A) Amylase B) Pepsin C) Sucrase D) Renin	**1**	**CO1**
Q 5	The main function of the large intestine is: A) Protein digestion B) Nutrient absorption C) Water absorption D) Acid secretion	**1**	**CO2**
Q 6	The basic unit of heredity is: A) Chromosome B) Nucleotide C) Gene D) DNA	**1**	**CO2**
Q 7	Following is not part of the central nervous system. A) Brain B) Spinal cord C) Cranial nerves D) Ventricles	**1**	**CO2**
Q 8	Which component of the DNA molecule carries genetic information? A) Phosphate B) Deoxyribose C) Nitrogenous base D) Sugar	**1**	**CO1**
Q 9	Define cardiac notch.	**1**	**CO2**
Q 10	Define tidal volume.	**1**	**CO1**
Q 11	Asthma is the disease associated with -------- system.	**1**	**CO2**
Q 12	In which condition artificial respiration recommended?	**1**	**CO3**
Q 13	Kidneys, ureter, urethra and urinary bladder are organs of the ------- system.	**1**	**CO2**
Q 14	Write steps involved in urine formation.	**1**	**CO4**
Q 15	Following tissues constitute and form anterior lobe of pituitary. A) Glandular tissue B) Nervous tissue C) Both D) None	**1**	**CO2**
Q 16	Name the hormone predominantly affects BMR.	**1**	**CO3**
Q 17	Give examples of any two endocrine glands.	**1**	**CO2**

Q 18	Estrogen and progesterone are male sex hormones. (True/False)	**1**	**CO1**
Q 19	Define oogenesis.	**1**	**CO1**
Q 20	Following hormone is secreted by pineal gland. A) Melatonin B) Growth Hormone C) Testosterone D) Thyroxine	**1**	**CO1**
SECTION B (20 Marks) **(2Qx10M=20 Marks)** **Attempt 2 Question out of 3**			
Q 1	Write a detailed note on the formation, storage, and role of ATP in energetics.	**5+2+3**	**CO2**
Q 2	Discuss different parts of nephron. Elaborate the physiology of urine formation.	**5+5**	**CO2**
Q 3	Describe the structure and function of the brain. Include cerebrum, cerebellum, brainstem and ventricles with CSF.	**10**	**CO4**
SECTION-C (35 Marks) **(7Qx5M=35 Marks)** **Attempt 7 Question out of 9**			
Q 1	Describe the function of salivary glands and composition of saliva.	**5**	**CO3**
Q 2	Classify hormones on different basis with suitable examples.	**5**	**CO1**
Q 3	Describe the structure of thyroid glands. Give clinical significance of thyroid hormones.	**3+2**	**CO3**
Q 4	Write a note on mechanism of respiration.	**5**	**CO4**
Q 5	Discuss an elaborative note on physiology of menstruation.	**5**	**CO2**
Q 6	Explain the structure and function of a typical neuron.	**5**	**CO1**
Q 7	Briefly describe the anatomy and functions of female reproductive system.	**3+2**	**CO2**
Q 8	Explain RAAS and mention its clinical significance.	**5**	**CO5**
Q 9	Define breathing. Explain its mechanism.	**2+3**	**CO3**