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**BRAINWARE UNIVERSITY****Term End Examination 2024-2025****Programme – B.Pharm-2020/B.Pharm-2021/B.Pharm-2022/B.Pharm-2023/B.Pharm-2024****Course Name – Human Anatomy and Physiology II/Human Anatomy and Physiology II
- Theory****Course Code - BP201T
(Semester II)****Library
Pharmaceutical Technology
Brainware University
Barasat, Kolkata-700125****Full Marks : 75****Time : 3:0 Hours**

[The figure in the margin indicates full marks. Candidates are required to give their answers in their own words as far as practicable.]

Group-A

(Multiple Choice Type Question)

1 x 20=20

1. Choose the correct alternative from the following :

- (i) Name the basic structural and functional unit of the nervous system.
- | | |
|--------------|----------------|
| a) Neuroglia | b) Glial cells |
| c) Neurons | d) Perikaryon |
- (ii) Select the correct answer for the following: Which of the following cells supports, nourishes, and protect the neurons?
- | | |
|-----------------|----------------|
| a) Nissl bodies | b) Perikaryon |
| c) Ganglia | d) Glial cells |
- (iii) Identify the correct option: The full form of T3 is_____.
- | | |
|-----------------------|---------------------|
| a) Tetraiodothyronine | b) Triiodothyronine |
| c) Thyroxin | d) Calcitonin |
- (iv) Identify the correct option: Another name of prolactin is_____.
- | | |
|---------------------|-----------------------|
| a) Lactogen hormone | b) lactogenic hormone |
| c) Serotonin | d) GH |
- (v) Identify the correct option: This respiratory disease is caused by inflammation of the mucus membrane.
- | | |
|--|---------------|
| a) Emphysema | b) Asthma |
| c) Chronic obstructive pulmonary disease | d) Bronchitis |
- (vi) Identify the enzyme that convert's proteins into peptides:

- a) Lipase
c) Pepsin
- b) Amylase
d) Trypsin
- (vii) Identify the function of bile juice from the following:
- a) It breaks protein.
c) It breaks down the food.
- b) It makes the food acidic.
d) None of the these
- (viii) Choose the hormone that is the basis for pregnancy test.
- a) HCG
c) Estrogen
- b) Prolactin
d) Prostaglandins
- (ix) Choose the hormones that causes uterine contraction.
- a) FSH, LH
c) Estrogen and progesterone
- b) Prolactin and progesterone
d) Oxytocin and prostaglandins
- (x) Choose the correct option: Islets of Langerhans are found in _____.
- a) Liver
c) Pancreas
- b) Stomach
d) Intestines
- (xi) Select the correct option from the following: The ion responsible for H^+ ion release from parietal cell is _____.
- a) Cl^-
c) Ca^{+2}
- b) K^+
d) Na^+
- (xii) Select the correct option from the following: saliva contain
- a) Bile salt
c) Mucus
- b) Salivary amylase
d) Both B and C
- (xiii) Select the pH of stomach:
- a) 4.5-5.5
c) 2.5-3.5
- b) 1.5-5.5
d) 1.5-3.5
- (xiv) Choose the correct option from the following: The precursor of chymotrypsin is _____.
- a) Trypsinogen
c) Peptidase
- b) Chymotrypsinogen
d) Lipase
- (xv) Select the correct option from the following: Peritoneum is _____.
- a) Protective layer of lungs
c) Protective layer of heart
- b) Protective layer of GIT
d) Protective layer of brain
- (xvi) Select the correct option from the following: The location of Crohn's disease is _____.
- a) Duodenum
c) Colon
- b) Stomach
d) Oesophagus
- (xvii) Select the correct option from the following: Total number of ATP gained from an ETC is _____.
- a) 20
c) 31
- b) 38
d) 28
- (xviii) Select the correct option from the following: Location of alveoli is _____.
- a) Heart
c) Oesophagus
- b) Pharynx
d) Lungs
- (xix) Identify the correct option: Cocaine as a stimulant of the CNS interferes with the reuptake of _____ at synapses.
- a) Acetylcholine
c) Oxygen
- b) Dopamine
d) Epinephrine
- (xx) Select the correct answer for the following: Synapse is present in _____.
- a) Cardiac tissue
c) Nervous tissue
- b) Muscular tissue
d) None

Group-B
(Short Answer Type Questions)

5 x 7=35

2. Describe thyroid hormone-related disorders. (5)
3. State the digestion of polysaccharides and disaccharides. (5)
4. Define hormones with proper classification. (5)
5. Describe the structure and function of the small intestine. (5)
6. Explain in short anatomical position and functions of cerebellum. (5)
7. Explain the location and function of salivary glands. (5)

OR

Explain mumps and inflammatory bowel disease. (5)

8. Explain about the reflex action. (5)

OR

Explain the formation and role of CSF. (5)

Group-C
(Long Answer Type Questions)

10 x 2=20

9. Describe the anatomy and functions of kidneys. (10)
10. Illustrate the structure and functions of liver. (10)

OR

Illustrate the functions of GIT. (10)