



BRAINWARE UNIVERSITY

Term End Examination 2023-2024

Programme – B.Pharm-2021/B.Pharm-2022/B.Pharm-2023

Course Name – Human Anatomy and Physiology II/Human Anatomy and Physiology II
- Theory

Course Code - BP201T
(Semester II)

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) Identify the correct option from following: Ovulation is occurred on the day of-
- | | |
|---------|---------|
| a) 12th | b) 5th |
| c) 14th | d) 20th |
- (ii) Select the correct option from following: First polar body formed after-
- | | |
|---------------|------------|
| a) Meiosis II | b) Mitosis |
| c) Meiosis I | d) None |
- (iii) Select the pH for vagina from the following:
- | | |
|------------------------|------------------------|
| a) Between 6.9 and 5.3 | b) Between 4.9 and 3.5 |
| c) Between 8.5 and 7.3 | d) Between 4.5 and 1.5 |
- (iv) Select the correct answer for the following: The point at which polytene chromosomes appear to be attached together is known as _____.
- | | |
|---------------|-----------------|
| a) centriole | b) chromocenter |
| c) chromomere | d) centromere |
- (v) Select the correct option from the following: The process of DNA replication is affected by an enzyme known as _____.
- | | |
|-----------------|-----------------|
| a) Ribonuclease | b) Mutase |
| c) Ligase | d) Polymerase I |
- (vi) Identify the correct option for start codon.
- | | |
|--------|--------|
| a) AUG | b) GUG |
| c) UAG | d) AGG |

Pharm
B.Pharm
Bairatar, K. J. 2023
200/25

- (vii) Identify the correct option: During the propagation of a nerve impulse, the action potential results from the movement of _____.
- a) Na⁺ ions from extracellular fluid to intracellular fluid
 b) K⁺ ions from extracellular fluid to intracellular fluid
 c) Na⁺ ions from intracellular fluid to extracellular fluid
 d) K⁺ ions from intracellular fluid to extracellular fluid
- (viii) Name the protective cell of the nervous system.
- a) Nodes of Ranvier
 b) Microglial Cells
 c) Ependymal Cells
 d) Astrocytes
- (ix) Select the correct answer for the following: The loop of Henle exists between the ____.
- a) Renal artery and renal vein
 b) Peritubular capillary and collecting duct
 c) Proximal convoluted tubule and distal convoluted tubule
 d) Glomerulus and peritubular capillary
- (x) Choose the correct option: The rate of reabsorption of water from the collecting duct is determined by the hormone _____.
- a) Oxytocin
 b) Cortisone
 c) Anti diuretic hormone
 d) Lactogenic hormone
- (xi) Identify the correct option: Respiration is controlled by _____.
- a) Cerebrum
 b) Cerebellum
 c) Medulla oblongata
 d) Hypothalamus
- (xii) Select the correct answer for the following: The epithelial tissues present on the inner surface of bronchioles and fallopian tubules are _____.
- a) Squamous
 b) Ciliated
 c) Glandular
 d) Cuboidal
- (xiii) Select the correct option for: _____ is more commonly known as the windpipe.
- a) Bronchi
 b) Trachea
 c) Epiglottis
 d) Diaphragm
- (xiv) Choose the correct option: These are tiny sacs found in the lungs.
- a) Alveoli
 b) Epithelial cells
 c) Epiglottis
 d) Pulmonary capillaries
- (xv) Identify the pH of gastric acid.
- a) 1.5 to 3.5
 b) 6
 c) 7.4
 d) 4-5
- (xvi) Identify which endocrine gland is responsible for the body's circadian rhythm.
- a) Thymus gland
 b) Pineal gland
 c) Parathyroid gland
 d) Pituitary gland
- (xvii) Choose the hormone which is at peak during ovulation.
- a) Progesterone
 b) Estrogen
 c) FSH
 d) LH
- (xviii) Choose the hormone that stimulates uterine contractions.
- a) oxytocin
 b) estrogen
 c) granular cell carcinoma
 d) progesterone
- (xix) Choose the correct option from the following: Thymus secretes ____.
- a) Thymosin
 b) Macrophages
 c) Antibodies
 d) Lymph
- (xx) Choose the correct option: Enlarged thyroid is the result of _____ deficiency.
- a) Calcium
 b) Iodine

c) Iron

d) Phosphorus

Group-B

(Short Answer Type Questions)

5 x 7=35

2. Define afferent and efferent nerve. (5)
3. Define the following terms: fallopian tube, uterus, zona pellucida, corona radiata, corpus luteum. (5)
4. Explain in short the functions of cerebrum. (5)
5. Explain the functions of the thymus gland. (5)
6. Describe the function of nervous system. (5)
7. Write a short notes on meninges. (5)

OR

Write a short note on action potential. (5)

8. Illustrate the parts of the midbrain and their functions (5)

OR

Explain the formation and role of CSF. (5)

Group-C

(Long Answer Type Questions)

10 x 2=20

9. Discuss about the different types of neuroglia. (10)
10. Explain the functioning of urinary system with proper diagram. (10)

OR

Explain about the structure of nephron with labelled diagram. (10)

Pharmacology
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