



Avinashilingam Institute for Home Science and Higher Education for Women

Deemed to be University Estd. u/s 3 of UGC Act 1956, Category 'A' by MHRD (now MoE)

Re-accredited with 'A++' Grade by NAAC. CGPA 3.65/4, Category I by UGC

Coimbatore - 641 043, Tamil Nadu, India

Bachelor's Degree Arrear Examination – May 2025

I Semester

Batch : 2024
Major : Optometry

Time: 3 Hours
Max. Marks: 100

22BOPC02 General Physiology

Course Outcomes:

CO1: To inspect the structural organization of cell and physiology of blood.

CO2: To elucidate normal growth, response, adaptations and development of different systems.

CO3: To apprehend the function of digestive and excretory system.

CO4: To comprehend the physiological functions of endocrine and reproductive system.

CO5: To discuss Physiological functioning of nervous system and Special senses

Part A

10 x 1= 10

Choose the Correct Answer

- Stages of Erythropoiesis includes all of these except CO1K1
a. Proerythroblast b. Lymphoblast c. Normoblast d. Reticulocyte
- Cells involved in Bone resorption CO1K1
a. Osteoclast b. Osteoblast c. Osteocyte d. Osteogenic
- Arteries which do not carry oxygenated blood CO2K1
a. Hepatic b. Systemic c. Pulmonary d. coronary
- Exchange of gases takes place in which part of lungs CO2K1
a. Alveoli b. Diaphragm c. Bronchioles d. Nasopharynx
- Majority of water from indigestible food is absorbed in the CO3K1
a. Stomach b. Large Intestine c. small intestine d. Duodenum
- The functional unit of Kidney CO3K1
a. Cortex b. Nephron c. Neuron d. Hilum
- The smallest gland of human body which is called "Master Gland" CO4K1
a. Thyroid b. Pituitary c. Adrenal d. Salivary
- Part of the reproductive system where fertilization takes place CO4K1
a. Vagina b. Uterus c. Ovary d. Fallopian tubes
- Stimulation of Muscle fibre by motor neuron occurs at CO5K1
a. Neuromuscular junction b. sarcoplasm
c. myofibril d. transverse tubules
- The eye lens is Co5K1
a. Biconcave b. Biconvex c. concave d. convex

Part B
Answer ALL questions
Each answer should not exceed 400 words or two pages

5 x 6 = 30

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| 11.a. Describe the types of Muscle tissue and its functions.
(or) | CO1K2 |
| 11.b. Discuss Plasma Proteins. | CO1K2 |
| 12.a. Discuss structure of Heart.
(or) | CO2K2 |
| 12.b. Show the significance of Pulmonary function test. | CO2K2 |
| 13. a. Explain Salivary gland and its role in digestion.
(or) | CO3K2 |
| 13. b. Discuss Body fluid distribution. | CO3K2 |
| 14. a. Illustrate Negative feedback of hormone regulation.
(or) | CO4K3 |
| 14. b. Describe role of Islets of Pancreas. | CO4K2 |
| 15. a. Explain the functions of Cerebral cortex.
(or) | CO5K2 |
| 15. b. Discuss Autonomic nervous system. | CO5K3 |

Part C
Answer ALL questions
Each answer should not exceed 800 words or two pages

5 x 12 = 60

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| 16. a. Differentiate Epithelial and Connective tissue.
(or) | CO1K3 |
| 16. b. Discuss composition of blood and clotting process. | CO1K3 |
| 17. a. Elucidate events of Cardiac cycle.
(or) | CO2K2 |
| 17. b. Describe Transport of respiratory gases. | CO2K2 |
| 18. a. Discuss the process of Digestion.
(or) | CO3K3 |
| 18. b. Elaborate on Nephron and its role in Urine formation. | CO3K2 |
| 19. a. Explain Menstrual Cycle.
(or) | CO4K2 |
| 19. b. Describe structure of Male reproductive system. | CO4K3 |
| 20. a. Discuss Neuron and conduction of nerve impulse.
(or) | CO5K2 |
| 20. b. Discuss Eye as special sense. | CO5K3 |
