



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 Examination – May 2025 II Semester

Class : I UG
Major : Physician Assistant

Time: 3 Hours
Max. Marks: 100

22BPAC07 Physiology - II

Course Outcomes:

On the successful completion of the course, students will be able to

CO1: Know the importance of physiological process of Special Senses.

CO2: Understand the General endocrinology and disorders of hormones.

CO3: Provide students insight into normal physiology of male and female reproductive system.

CO4: Aware of functional anatomy of Lymphatic and Immunological System.

CO5: Understand the physiological process of Central Nervous System..

Part A

10 x 1 = 10

Choose the Correct Answer

- Name of the transparent layer of the eye
a. Eyeball b. Sclera c. Cornea d. Iris CO1 K1
- Identify the smallest bone in Ear
a. Pinna b. Malleus c. Incus d. Stapes CO1 K2
- The calcium level in the blood is regulated by the
a. Parathyroid & thyroid b. Adrenal medulla & pancreas
c. Pituitary d. Parathyroid & Thymus CO2 K1
- Insulin is secreted by
a. Pancreas b. Adrenal gland
c. Thyroid gland d. Pituitary CO2 K1
- Choose the hormone that stimulates uterine contraction
a. Oxytocin b. Estrogen
c. Testosterone d. Progesterone CO3 K1
- Name the hormone that is released from the testes is
a. Progesterone b. Vasopressin
c. Testosterone d. None of the above CO3 K1
- Location of thymus gland
a. Neck b. Abdomen c. Heart d. Sternum CO4 K1
- Determine the Immune cells primarily responsible for the destruction of Infected or cancerous cells
a. B cells b. helper T cells c. Cytotoxic T cells d. Mast cells CO4 K1
- Identify the following is not a function of the CNS
a. Control of voluntary movements b. Sensory Information processing
c. Regulating emotions d. Produce digestive enzyme CO5 K1
- Select the largest part of the brain
a. Medulla oblongata b. Cerebellum c. Cerebrum d. Thalamus CO5 K1

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. Function of retina & Discuss visual pathway. | CO1 K2 |
| (or) | |
| 11.b. Discuss Auditory pathway. | CO1 K2 |
| 12.a. Explain the general functions of endocrine glands. | CO2 K1 |
| (or) | |
| 12.b. Enumerate the Disorders of hormones. | CO2 K3 |
| 13.a. Explain Male Reproductive system. | CO3 K3 |
| (or) | |
| 13.b. Explain contraceptive. | CO3 K3 |
| 14.a. Discuss the Circulation of lymph. | CO4 K2 |
| (or) | |
| 14.b. Enumerate the formation of T cells. | CO4 K3 |
| 15.a. Explain reflexes, sensation. | CO5 K2 |
| (or) | |
| 15.b. Explain Autonomic Nervous system. | CO5 K2 |

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

5 x 12 = 60

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| 16.a. Explain the structure of Ear, Enumerate the central and peripheral auditory mechanism. | CO1 K3 |
| (or) | |
| 16.b. Discuss physiology of Taste & taste buds. | CO1 K3 |
| 17.a. Describe pancreas in detail and list the functions of pancreatic hormones with their clinical corelation. | CO2 K3 |
| (or) | |
| 17.b. Classify the endocrine glands and its hormones. | CO2 K4 |
| 18.a. Explain the placenta and discuss the function of placenta. | CO3 K3 |
| (or) | |
| 18.b. Explain Menstrual cycle. | CO3 K4 |
| 19.a. Classify Antigen and Antibodies system in detail. | CO4 K2 |
| (or) | |
| 19.b. Explain Immune system and Discuss the T cells. | CO4 K3 |
| 20.a. Explain spinal cord and Discuss the function of CSF. | CO5 K3 |
| (or) | |
| 20.b. Discuss in detail the brain structure and functions of brain. | CO5 K4 |
