



**Avinashilingam Institute for Home Science and Higher Education for Women
Coimbatore- 641043.
Continuous Internal Assessment Test –II April 2025
SEMESTER - II**

**Class: I UG
Major: BPT**

**Time: 2 hours
Max. Marks: 60**

22BPTC07 Physiology-II

Course Outcomes

- CO1: Brief outline of nervous system
- CO2: Overview of cardiovascular
- CO3: Detail knowledge of respiration.
- CO4: Brief knowledge of excretion system.
- CO5: Outline of different parts and functions of reproductive system

Part A

6x1=6

Choose the correct answer

1. Identify the correct statement. The autonomic nervous system
a. controls smooth muscle, skeletal muscle and cardiac muscle
b. controls smooth muscle, cardiac muscle and glandular activity
c. mainly provides the afferent pathways for involuntary control of organs
d. is subdivided into parasympathetic and sympathetic systems that mostly work antagonistically on blood vessels CO1 K1

2. The process of urine formation involves a sequence of essential steps that occur in the kidney. Select the correct sequence in order
a. Filtration, Secretion, Re-absorption b. Filtration, Re-absorption, Secretion
c. Secretion, Filtration, Re-absorption. d. None of these are correct CO4 K1

3. Select one of the following. micturition does not involve CO4 K2
a. Relaxation of urethral sphincter
b. contraction of urinary bladder
c. Stretching of transitional epithelium of urinary bladder
d. contraction of ureter

4. Which of the following mechanoreceptors is NOT a proprioceptor
a. Golgi tendon organ b. muscle spindle
c. Ruffini ending in joint d. Pacinian corpuscle CO1 K1

5. Which organ in the male reproductive system produces testosterone CO5 K1
a. Testes b. Prostate gland c. Seminal vesicles d. Epididymis

6. The menstrual cycle is controlled by hormones released from the: CO5 K2
a. Ovaries b. Pituitary gland c. Hypothalamus d. Adrenal glands

Part – B

Answer should not exceed 400 words or two pages

3x6=18

- 11.a. Define structure of neuron and classification of nerve fibres. CO1K2
- 11.b. Define Juxtaglomerular apparatus. CO4K2
- 12.a. Sketch the renal circulation. And write about its special features CO4K3
- 12.b. Describe contraceptive measures CO5K1
- 13.a. Discuss the functions of placenta CO5K3
- 13.b. Explain about reflexes CO1K3

Part – C

Answer should not exceed 800 words or four pages

3x12=36

- 14.a. Describe action potential CO1K3
- 14.b. Define micturition reflex and its dysfunction. CO4K1
- 15.a. Explain the phases of menstrual cycle. CO5K3
- 15.b. Explain physiology of pain CO1K3
- 16.a. Define posture and equilibrium CO1K1
- 16.b. Explain formation of urine CO4K3

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NAME OF THE STAFF: C.S.Aathisha