



J. Sambath

Avinashilingam Institute for Home Science and Higher Education for Women

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

Re-accredited with A+ Grade by NAAC. Recognised by UGC Under Section 12B

Coimbatore - 641 043, Tamil Nadu, India

Continuous Internal Assessment Test II –October 2024

Semester III

Class : II UG

Major: Biochemistry and Biotechnology

Time: 2 hours

Max. marks: 60

23BBTC03 Mammalian Physiology

CO:1 The various physiological systems in the human body.

CO:2 The functional anatomy of different organs in each system.

CO:3 The complex mechanisms of the processes of digestion, absorption, excretion, gas exchange, reproduction and neuromuscular coordination.

CO:4 Integrated System physiology that will enable understanding of the biochemical basis of disease.

Part A- Answer all questions (Multiple choice questions)

(6 X 1 = 6 Marks)

1. The tiny air sacs present in human lungs are called
a) Alveoli b) Bronchus c) Bronchioles d) dendrites CO3K1
2. Which muscle can help to modify the curvature in an eye lens?
a) Glandular muscles b) Ciliary muscles c) Smooth muscles d) reticular muscles CO3K3
3. A specialized equipment, which is used for the identification of hearing loss in individuals is
a) gaugemeter b) tachometer c) manometer d) audiometer CO3K3
4. The length of this is reduced while the muscle contracts
a) Sarcomere b) I- Band c) A- Band d) H-Zone CO4K3
5. The cerebrospinal fluid is secreted by
a) Central sulcus b) Arachnoid villi c) Choroid plexuses d) Pons CO4K3
6. Hormones responsible for the menstrual cycle are produced from
a) Uterus b) Ovaries c) Ovaries and anterior pituitary d) endometrium CO4K2

Part B

3 x 6 = 18

Answer the following

Answers should not exceed 200 words or one page

7. a. What is hypoxia and explain the risk factors and diagnosis procedure? CO3K3
OR
b. Write short note on the structure and functions of neuron with a neat sketch CO3K3
8. a. Explain the sliding filament mechanism of skeletal muscle contraction. CO4K3
OR
b. Elaborate on the composition of cerebrospinal fluid and its functions. CO2K3
9. a. Describe the mechanism of respiration CO2K3
OR
b. Elaborate on the classification of hormones CO5K2

PART – C

Answer any one question

10. a. Explain the functional anatomy of respiration with a neat diagram. CO3K3
OR
b. Discuss the mechanism and abnormalities of vision. CO3K3
11. a. Discuss in detail about the structure and functions of human brain with a neat sketch CO4K3
OR
b. Explain in detail the anatomy of female reproductive system and Oogenesis CO4K3
12. a. Outline the physiology of menstruation CO5K2
OR
b. Explain the physiological changes taking place during pregnancy CO5K2

Staff In Charge : Dr. S.Sumathi Dr. Jeba Sweety (SFprogram)

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