



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 – I, February 2025
Semester II

Class : I PG
Branch: Zoology

Time: 2Hrs
Max. Marks: 60

23MZOC08 Animal physiology and Endocrinology

Course Outcomes:

- 1 Understand the physiological systems and their specific functions
- 2 Knowledge on the interdependence of physiological and biochemical processes.
- 3 Know the transfer of information from one group of animals to other using signals
- 4 Learn properties and regulation of biological processes in the body from conception through adulthood by the endocrine glands.
- 5 Understanding the factors influencing the adaptations and responses of organisms to particular environment.

Part A

6 x 1 = 6

Choose the Correct Answer

1. Name the Glands associated with the Human Digestive System? CO1 K1
(a) Salivary Glands and Pancreas (b) Salivary Glands and Liver
(c) Liver and Pancreas (d) Salivary Glands, Liver & Pancreas
2. Human heart is covered by a double layered membrane called CO3K1
(a) plural membrane (b) epicardium (c) myocardium (d) pericardium
3. Main function of Henle's loop is CO2 K2
(a) passage of urine (b) filtration of blood
(c) formation of urine (d) conservation of urine
4. -----respiratory pigment contains copper. CO2 K1
(a) Haemoerythrin (b) Haemocyanin (c) Chlorocruirin (d) Haemoglobin
5. Gustatory receptors detect CO2 K1
(a) taste (b) smell (c) heat (d) touch
6. During muscle contraction, calcium binds with CO3K2
(a) Tropomyosin (b) TpC (c) Tpl (d) TpT

Part B

3 x 6 = 18

Answer ALL questions

Each answer should not exceed 400 words or two pages

7. (a) Describe the structure of the heart CO2 K2
(or)
7. (b) Comment on the origin and conduction of cardiac impulse CO1 K2
8. (a) Illustrate the ultra structure of nephron. CO2 K3
(or)
8. (b) Write a note on Respiratory pigments. CO3 K1
9. (a) Give a detailed account on conduction of nerve impulse CO3 K2
(or)
9. (b) Comment on the properties of contraction of muscles. CO2 K1

Part C

3 x 12 = 36

Answer ALL questions

Each answer should not exceed 800 words or four pages

10. (a) Elucidate in detail about digestive glands in mammal CO1 K2
(or)
10. (b) Enumerate the composition of blood and lymph. CO2 K2
11. (a) Expound the process of blood gas transport. CO2 K1
(or)
11. (b) Write a detailed account on regulation of respiration. CO2 K2
12. (a) Illustrate the morphology and physiology of any two sense organs CO3 K1
(or)
12. (b) Describe in detail about the biochemistry of muscles. CO3 K1

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Name of the staff: Dr.K.Manimegalai