



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 II – April, 2025
II Semester

Class: I PG

Time : 2 Hours

Major: Zoology

Marks : 60

23MZOC08 Animal Physiology and Endocrinology

Course Outcome:

1. Understand the physiological processes that regulate body functions and the regulation of an organ system from the molecular to animal level
2. Be able to describe interactions between different organ systems
3. Know the anatomy of different physiological systems and their specific functions
4. Understand the principles of hormone action, including structure, mechanism of release from endocrine cell, mode of transport in blood, mechanism of action in target cells, and systemic effects of important hormones.
5. Understanding of factors influencing the adaptations and responses of organisms to particular Environments.

Part- A

6 x 1 =6

Choose the correct answer

1. Bioluminescence in animals primarily serves the purpose of _____. CO1K1
a) thermoregulation b) communication and mating c) digestion d) hormonal balance
2. The primary function of pheromones in animals is _____. CO1K1
a) digestion b) communication and mating c) thermoregulation d) excretion
3. The endocrine gland that regulates calcium levels in the blood is _____. CO1K2
a) thyroid b) pituitary c) parathyroid d) adrenal
4. The hormone responsible for regulating the body's metabolic rate is _____. CO2K1
a) insulin b) thyroxine c) adrenaline d) prostaglandin
5. Menstrual cycle is initiated by _____. CO1K1
a) estrogen b) progesterone c) follicle-stimulating hormone d) luteinizing Hormone
6. The hormone involved in the regulation of gastric metabolism _____. CO2K1
a) glucagon b) insulin c) cortisol d) gastrin

Part-B

3x6=18

Answer all questions

Answer should not exceed 200 words or one page

7. a) Tabulate the difference between circadian and circannual rhythms CO2K2
(or)
b) Enumerate the role of pheromones in invertebrates CO2K2
8. a) Illustrate the structure and function of the adrenal glands in mammals CO2K2
(or)
b) Examine the role of the hypothalamus in thermoregulation CO2K1
9. a) Elucidate the process of hormonal regulation of the ovarian cycle CO2K2
(or)
b) Comment on the significance of the neuroendocrine system in Insecta. CO2K2

Part- C

2x12=36

Answer the following

Answer should not exceed 600 words or one page

10. a) Sketch the navigation mechanisms used by migratory animals CO3K1
(or)
b) Highlight the biological significance and process of bioluminescence in animals CO3K3
11. a) Summarize the structure and functions of the pituitary gland. CO3K2
(or)
b) Explicate the role of hormones in maintaining homeostasis CO3K2
12. a) Elaborate the different phases in the menstrual cycle. CO3K3
(or)
b) Critically examine the hormone analogues and their applications CO3K1

No. of copies: 6

Staff in charge: Dr. K.Manimegalai