



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

Bachelor's Degree Examination – March 2021
I Semester

Class : I UG
Major : Botany

Time : 3 Hours
Max. Marks: 100

18BBOI01 DSE-I Non Chordates and Chordates

Part A

10 x 1 = 10

Choose the Correct Answer

1. Trichocyst of *Paramecium* is required for
 a. Osmoregulation b. Nutrition c. Reproduction d. Defence
2. The earthworm is placed under the group
 a. Polychaeta b. Hirudinea c. Oligochaeta d. Crustacea
3. Excretion in Cockroach takes place by
 a. Coxal gland b. Parotid gland c. Malpighian tubule d. Nephridium
4. "Pearl mother layer" is
 a. Nacre b. Prismatic layer c. Mantle d. Periostracum
5. Scoliodon is commonly called as
 a. Dog fish b. Lung fish c. Marine fish d. Flying fish
6. Ampullae of Lorenzini are
 a. Photoreceptors b. Thermoreceptors c. Rheoreceptors d. Tangoreceptors
7. The heart of frog is
 a. One chambered b. Two chambered c. Three chambered d. Four chambered
8. Feeding habits of adult frog
 a. Herbivores b. Carnivores c. Omnivores d. Detritivores
9. Lubrication of cornea in rabbit is due to
 a. Sebaceous gland b. Sweat gland c. Perineal gland d. Meibomian gland
10. The habit of eating its own faeces is called as
 a. Autophagy b. Coprophagy c. Polyphagy d. Heterophagy

Part B

5 x 6 = 30

Answer ALL questions

Each answer should not exceed 400 words or two pages

- 11.a. Describe the structure and functions of contractile vacuoles of Paramecium, with a neat labelled diagram.
(or)
- 11.b. Elucidate the external morphology of Earthworm.
- 12.a. Illustrate the mechanism of respiration in Cockroach.
(or)
- 12.b. Describe the digestive system of Pila.
- 13.a. List out the general characters of Class Reptilia.
(or)
- 13.b. Draw and describe the male reproductive system of Scoliodon.
- 14.a. With neat diagram explain the structure of frog heart.
(or)
- 14.b. Explain the female reproductive system of frog with suitable diagram.
- 15.a. Illustrate the digestive system of rabbit.
(or)
- 15.b. Write down the characteristic features of marsupial animals.

Part C

5 x 12 = 60

Answer ALL questions

Each answer should not exceed 800 words or four pages

- 16.a. Explain the process of conjugation in Paramecium.
(or)
- 16.b. Describe the reproductive systems of Earthworm.
- 17.a. Elucidate the digestive system of Cockroach.
(or)
- 17.b. Elaborate the types and mechanism of respiration in Pila.
- 18.a. Narrate the general characters of Class Mammals.
(or)
- 18.b. Illustrate the digestive system of Scoliodon.
- 19.a. Explain the types of respiration in Frog.
(or)
- 19.b. Write an essay on parental care of Amphibians.
- 20.a. Discuss the course of blood circulation in Rabbit.
(or)
- 20.b. Draw and describe the structure of Rabbit brain.
