

**Avinashilingam Institute for Home Science and Higher Education for Women,  
(Deemed to be University) Coimbatore – 641 013  
Bachelor's Degree Examinations – November 2018**

**I Semester**

**Class: I UG**

**Time: 3 hrs**

**Major: BOTANY**

**Marks: 100**

**18BBO101 - NON CHORDATES AND CHORDATES**

**Part-A**

**10 x 1 = 10**

**Choose the correct answer**

1. Paramecium belongs to the order  
a. ciliophora                      b. holotricha                      c. dinoflagellata                      d. chrysomanadina
2. Name the last segment of earthworm  
a. clitellum                      b. peristomium                      c. pygidium                      d. prostomium
3. Number of segments present in the abdomen of cockroach  
a. 11                      b. 10                      c. 9                      d. 8
4. The upper whorl of Pila is called  
a. apex                      b. operculum                      c. boss                      d. shell mouth
5. Animals having notochord in their tail region are  
a. urochordates                      b. cephalochordates                      c. vertebrates                      d. invertebrates
6. Ampullae of Lorenzini are  
a. chemoreceptors                      b. rheoreceptors                      c. thermoreceptors                      d. photoreceptors
7. *Rana tigrina* is commonly called  
a. indian bull frog                      b. green frog                      c. skipper frog                      d. tree frog
8. Cushion like pad develops in index finger of male frog is  
a. manus                      b. vocal sac                      c. carpus                      d. nuptial pad
9. Mammary gland of rabbit is a modified gland of  
a. perineal gland                      b. sweat gland                      c. sebaceous gland                      d. meibomian gland
10. Rabbit has tangoreceptors on their  
a. skull                      b. skin                      c. eyes                      d. tongue

**Part B**

**5 X 6=30**

**Answer the following**

**Answer should not exceed 400 words or two pages**

11.a. Illustrate the oral apparatus and feeding mechanism in paramecium.

(OR)

11.b. Mention the types of nephridia in earthworm.

12.a. Describe the structure of mouth parts in cockroach.

(OR)

12.b. Elucidate the external structure of *Pila globosa*.

13.a. Give the classification of phylum Chordata.

(OR)

13.b. Explain the digestive system of Scoliodon.

14.a. Illustrate the alimentary canal of frog.

(OR)

14.b. Explain the structure of brain in frog.

15.a. Elucidate the external structure of rabbit.

(OR)

15.b. Enumerate the male reproductive system of rabbit.

**Part C**

**5 x 12=60**

**Answer the following**

**Answer should not exceed 800 words or four pages**

16.a. What is Conjugation? Explain in detail about the process of conjugation taking place in

Paramecium.

(OR)

16.b. Describe the male and female reproductive system of earthworm.

17.a. Enumerate the male reproductive system of cockroach.

(OR)

17.b. Explain the digestive system of *Pila globosa*.

18.a. Illustrate the structure brain in shark.

(OR)

18.b. Explain the urinogenetal system of shark.

19.a. Differentiate the type of respiration in frog.

(OR)

19.b. Discuss the parental care in amphibians.

20.a. Draw and explain the excretory system of rabbit.

(OR)

20.b. List out the salient features of marsupials.

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