

PSG COLLEGE OF ARTS & SCIENCE
(AUTONOMOUS)

BSc DEGREE EXAMINATION DECEMBER 2019
(First Semester)

Branch-ZOOLOGY

ANIMAL DIVERSITY -1

Time: Three Hours

Maximum: 75 Marks

SECTION-A (10 Marks)

Answer ALL questions

ALL questions carry EQUAL marks (10 x 1 = 10)

- 1 Protozoans are classified into number of classes based on
(i) The presence of spicules (ii) Locomotory structures
(iii) Presence of polyps and medusa (iv) Presence of setae
- 2 How many contractile vacuoles are present in Paramecium caudatum?
(i) 2 (ii) 4
(iii) 6 (iv) Many
- 3 Find the larval form of Ascaris lumbricoides
(i) Planula larva (ii) Amphiblastula
(iii) Rhabdiform (iv) Zoea
- 4 The function of polyps in obelia is
(i) Reproduction (ii) Nutrition
(iii) Excretion (iv) Digestion
- 5 Which one of the following is the salient feature of phylum Annelida?
(i) Metamerism (ii) Canal system
(iii) Jointed legs (iv) Water vascular system
- 6 “Vermiculture” is meant for culturing
(i) Silkworms (ii) Earth worms
(iii) Honeybees (iv) Fishes
- 7 The connecting link between Annelida and Arthropoda is
(i) Balanoglossus (ii) Peripatus
(iii) Starfish (iv) Euglena
- 8 Prawn belongs to the class
(i) Crustacea (ii) Myriapoda
(iii) Arachnida (iv) Decapoda
- 9 “Apple snail” is
(i) Pila globosa (ii) Pinctada vulgaris
(iii) Asterius rubens (iv) Conus albicans
- 10 Where do starfishes live?
(i) Freshwater (ii) Terrestrial
(iii) Marine habitat (iv) Marshy land

Cont..

SECTION - B (35 Marks)

Answer **ALL** Questions

ALL Questions Carry **EQUAL** Marks (5 x 7 = 35)

11 a With a neat diagram, describe the structure of Paramecium caudatum.

OR -

b Write an account on nutrition in protozoa.

12 a Enlist the general characters of phylum coelenterata.

OR

b What are corals? Write its ecological importance.

13 a Describe the structure of earthworm.

OR

b Classify the phylum Annelida upto class level with an example.

14 a Explain the cephalic appendages of Prawn.

OR

b Write an account on prawn culture in India.

15 a Analyze the organization and affinities of Balanoglossus.

OR

b How do you get pearls by adopting scientific method?

SECTION - C (30 Marks)

Answer any **THREE** Questions

ALL Questions Carry **EQUAL** Marks (3 x 10 = 30)

16 Enlist the general characters of phylum porifera, Add a note on its classification up to class level with an example of each class.

17 Give an account on the life history of Ascaris lumbricoides.

18 “Vermiculture is a boon to agriculture”- Analyze.

19 “Peripatus is a connecting link between Annelida and Arthropoda”- Discuss.

20 With a neat sketch, explain the morphology and organ systems of Pila globosa.

Z-Z-Z

END