

PSG COLLEGE OF ARTS & SCIENCE
(AUTONOMOUS)

BSc DEGREE EXAMINATION MAY 2022
(First Semester)

Branch - ZOOLOGY

ANIMAL DIVERSITY - I

Time: Three Hours

Maximum: 50 Marks

SECTION-A (5 Marks)

Answer ALL questions

ALL questions carry EQUAL marks

(5 x 1 = 5)

1. Which one of the following contains two nuclei?

(i) Amoeba	(ii) Paramecium
(iii) Leucosolenia	(iv) Plasmodium
2. Find out the sexual zooid in the Obelia colony:

(i) Medusa	(ii) Polyp
(iii) Blastostyle	(iv) Hydrocaulus
3. Megasciolex mauritii belongs to the class:

(i) Polychaeta	(ii) Hirudinea
(iii) Oligochaeta	(iv) Archiannelida
4. Which one of the following is called as "living fossil"?

(i) Peripatus	(ii) Prawn
(iii) Scorpion	(iv) Crab
5. Which one of the following is described as the "apple- snail"?

(i) Pila globosa	(ii) Murex
(iii) Octopus	(iv) Sepia

SECTION - B (15 Marks)

Answer ALL Questions

ALL Questions Carry EQUAL Marks

(5 x 3 = 15)

6. a. Describe the structure of Paramecium caudatum.
OR
b. Classify the Phylum: Porifera up to the level of classes with salient features and an example for each class.
7. a. Explain the life-cycle of Ascaris lumbricoides.
OR
b. Describe the structure of Taenia solium.
8. a. Prepare a short notes on vermiculture.
OR
b. Enumerate the general characters of the Phylum: Annelida.

Cont...

- 9 a Describe the nervous system of prawn.
OR
b Describe the digestive system of prawn.
- 10 a Explain the nervous system of *Pila globosa*.
OR
b Draw a neat labelled diagram of *Bipinnaria* larva.

SECTION -C (30 Marks)

Answer ALL questions
ALL questions carry EQUAL Marks (5 x 6 = 30)

- 11 a Enumerate the general characters of Phylum: Protozoa and classify it up to the level of classes with salient features. Give an example for each class.
OR
b Explain the process of conjugation in *Paramecium caudatum*.
- 12 a Explain the life-cycle of *Obelia geniculata*.
OR
b Elucidate the coral and coral reefs.
- 13 a Classify the Phylum: Annelida up to the level of classes with salient features and examples.
OR
b Elucidate the digestive system of *Megascolex mauritii*.
- 14 a Analyse the affinities of *Peripatus*.
OR
b Appendages of prawn – Discuss.
- 15 a Digestive system of *Pila globosa* – Explain.
OR
b Explain the water – vascular system of star-fish.

Z-Z-Z

END