

PSG COLLEGE OF ARTS & SCIENCE  
(AUTONOMOUS)

BSc DEGREE EXAMINATION MAY 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 Which of the following one is filter feeder?  
(i) Amoeba (ii) Paramecium  
(iii) Entamoeba (iv) Trypanosoma
- 2 Which structure in sponges correspond to the mouth of other animals?  
(i) Ostia (ii) Osculum  
(iii) Incurrent canals (iv) Excurrent canals
- 3 How many gonads are found in a medusa?  
(i) 4 (ii) 8  
(iii) 2 (iv) numerous
- 4 Ascaris completes its life cycle  
(i) only in human (ii) human and sheep  
(iii) human and mosquito (iv) human and cow
- 5 "Vermiculture" refers to  
(i) Rearing of Silkworm (ii) Rearing of Honeybees  
(iii) Rearing of Earthworms (iv) Culturing of Fishes
- 6 Clitellum can be seen in  
(i) Earthworm (ii) Ascaris  
(iii) Prawn (iv) Obelia
- 7 Which of the following one organism is a connecting link between Annelida and Arthropoda?  
(i) Peripatus (ii) Amphioxus  
(iii) Starfish (iv) Archaeopteryx
- 8 How many appendages are found in cephalothoracic region of Prawn?  
(i) 13 pairs (ii) 5 pairs  
(iii) 8 pairs (iv) 19 pairs
- 9 The Zoological name of apple snail is  
(i) Asterias rubens (ii) Pila globosa  
(iii) Pinctada Vulgaris (iv) Phallusia nigra
- 10 Balanoglossus comes under the sub phylum.  
(i) Hemichordata (ii) Urochordata  
(iii) Cephalochordata (iv) Echinodermata

Cont...

**SECTION - B (35 Marks)**

Answer **ALL** Questions

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

- 11 a Enumerate the salient features of Phylum Protozoa.  
OR  
b Draw a neat labelled diagram of the structure of Paramecium.
- 12 a Explain the morphology of Obelia colony.  
\* OR  
b Give an account on the life history of Ascaris.
- 13 a Write a brief account on Vermiculture.  
OR  
b Classify the Phylum Annelida upto class level with examples.
- 14 a Narrate the cephalic appendages of Prawn.  
OR  
b Explain the techniques adopted in prawn culture.
- 15 a Bring out the affinities of Balanoglossus.  
OR  
b Explain the morphology of Starfish.

**SECTION - C (30 Marks)**

Answer any **THREE** Questions

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

- 16 Write an essay on locomotion in Protozoa.
- 17 What are Coral reefs? Illustrate the various type of coral reefs and their constituent components.
- 18 With a neat diagram, describe the structure of Megascolex Marutii.
- 19 “Peripatus - a connecting link between Annelida and Arthropoda” - Justify.
- 20 How do you obtain Pearls from Pearl Oyster? Discuss.

Z-Z-Z

END