

PSG COLLEGE OF ARTS & SCIENCE
(AUTONOMOUS)

BSc DEGREE EXAMINATION MAY 2022
(First Semester)

Branch – BOTANY

ZOOLOGY - I

Time: Three Hours

Maximum: 50 Marks

SECTION-A (5 Marks)

Answer ALL questions

ALL questions carry EQUAL marks

(5 x 1 = 5)

- 1 To which Phylum the Obelia belongs to:
(i) Coelenterata (ii) Protozoa
(iii) Annelida (iv) Mollusca
- 2 Find out the nutritive zooid in the Obelia colony:
(i) Medusa (ii) Polyp
(iii) Blastostyle (iv) Hydrocaulus
- 3 Identify the excretory organ of prawn from the following:
(i) Radial canal (ii) Protonephridia
(iii) Green gland (iv) Meganephridia
- 4 "Scroll valve" is present in the intestine of:
(i) Shark (ii) Frog
(iii) Calotes (iv) Rabbit
- 5 Which one of the following feathers is used for flight?
(i) Down feather (ii) Quill feather
(iii) Filoplume (iv) Contour feather

SECTION - B (15 Marks)

Answer ALL Questions

ALL Questions Carry EQUAL Marks

(5 x 3 = 15)

- 6 a Enumerate the general characters of Invertebrata.
OR
b Enlist the general characters of Chordata.
- 7 a Describe the structure of Obelia colony.
OR
b Scolex of Taenia solium – Explain.
- 8 a Describe the nervous system of prawn.
OR
b Describe the morphology of starfish.
- 9 a Write short notes on placoid scale.
OR
b Draw a neat labelled diagram of eye of frog.
- 10 a Summarize the flight muscles of pigeon.
OR
b Describe the structure of T.S. of cochlea of rabbit.

Cont...

SECTION -C (30 Marks)

Answer **ALL** questions

ALL questions carry **EQUAL** Marks

(5 x 6 = 30)

11 a Prepare an outline classification of Invertebrata up to the level of Phyla with salient features and examples.

OR

b Tabulate the outline classification of Chordata up to the level of classes with salient features and examples.

12 a Explain the life history of *Obelia geniculata*.

OR

b Elucidate the life history of *Taenia solium*.

13 a Summarize the abdominal appendages of prawn.

OR

b Water – vascular system of starfish – Discuss.

14 a Explain the digestive system of shark.

OR

b Explain the structure of heart of frog.

15 a Respiratory system of pigeon – Discuss.

OR

b Elucidate the arterial system of rabbit.

Z-Z-Z

END