

PSG COLLEGE OF ARTS & SCIENCE
(AUTONOMOUS)

BSc DEGREE EXAMINATION MAY 2022
(Second Semester)

Branch – ZOOLOGY

ANIMAL DIVERSITY-II

Time: Three Hours

Maximum: 50 Marks

SECTION-A (5 Marks)

Answer ALL questions

ALL questions carry EQUAL marks (5 x 1 = 5)

1. Identify the following animal is commonly called lancet.
(i) Balanoglossus (ii) Ascidian (iii) Amphioxus (iv) Doliolum
2. Which type of scales are found in scoliodon?
(i) Placoid (ii) Ctenoid (iii) Cycloid (iv) Ganoid
3. Find the following animal is included in order Apoda.
(i) Necturus maculosus (ii) Ambystoma tigrinum
(iii) Rhacophorus pleurosticus (iv) Ichthyophis subterrestris
4. Which of the following animal is a living fossil?
(i) Lycodon (ii) Sphenodon (iii) Chameleon (iv) Python
5. Identify the following animal is an egg laying mammal.
(i) Platypus (ii) Macropus (iii) Loris (iv) Manis

SECTION-B (15 Marks)

Answer ALL Questions

ALL Questions Carry Equal Marks (5x3=15)

- 6 a. List out the general characters of prochordata.
(OR)
b. Describe the retrogressive metamorphosis in Ascidian.
- 7 a. Explain about the fins of shark.
(OR)
b. Define and distinguish anadromous and catadromous migration.
- 8 a. Summarize the general characters of Amphibia.
(OR)
b. Write a brief account on digestive system of frog and its associated digestive glands.
- 9 a. Explain first aid for snake bite.
(OR)
b. Discuss sphenodon as living fossil.

10 a. List out the general characters of mammals.

(OR)

b. Give an account of the flightless birds.

Section – C (30 Marks)

Answer **ALL** Questions

ALL Questions Carry Equal Marks (5x6=30)

11 a. Classify prochordates up to the level of classes and mention their salient features with examples

(OR)

b. Elucidate the digestive system of Amphioxus with its associated digestive glands.

12 a. Enumerate the accessory respiratory organs in fishes.

(OR)

b. Discuss in detail about organization and affinities of dipnoi.

13 a. Classify the modern amphibia up to the level of orders with salient features and an example for each class.

(OR)

b. Describe parental care in Amphibia with suitable examples.

14 a. Highlight the male and female reproductive system of Calotes.

(OR)

b. Enumerate the poisonous and non-poisonous snakes of south India.

15 a. Give an account of migration in birds.

(OR)

b. Summarize the aquatic adaptations in mammals.

Z-Z-Z END