

**PSG COLLEGE OF ARTS & SCIENCE  
(AUTONOMOUS)**

**BSc DEGREE EXAMINATION DECEMBER 2025  
(First Semester)**

Branch - **BOTANY**

**ZOOLOGY – I**

Time: Three Hours

Maximum: 75 Marks

**SECTION-A (10 Marks)**

Answer **ALL** questions

**ALL** questions carry **EQUAL** marks

(10 × 1 = 10)

| Module No. | Question No. | Question  | K Level | CO  |
|------------|--------------|---|---------|-----|
| 1          | 1            | The embryonic notochord is replaced by _____ in most of the vertebrates.<br>a) Ventral Heart      b) Gills<br>c) Wings                d) Vertebral column               | K1      | CO1 |
|            | 2            | Which of the following class exhibits polymorphism?<br>a) Hydrozoa            b) Scyphozoa<br>c) Crinoidea            d) Gastropoda                                     | K2      | CO2 |
| 2          | 3            | The suckers and hooks are present in<br>a) Earthworm            b) Ascaris<br>c) Tape worm            d) Leucosolenia   | K1      | CO1 |
|            | 4            | Which one of the animal is known as the sea fur?<br>a) Euglena              b) Volvox<br>c) Amoeba                d) Obelia   | K2      | CO2 |
| 3          | 5            | The chitinous exoskeleton and jointed appendages are defining features of which animal ?<br>a) Earthworm            b) Prawn<br>c) Starfish                d) Jellyfish | K1      | CO1 |
|            | 6            | The structure through which the water vascular system opens to the exterior is called<br>a) Ambulacral groove b) Tube feet<br>c) Madreporite        d) Stone canal      | K2      | CO2 |
| 4          | 7            | The scientific name of shark is _____<br>(a) Scoliodon sorrakowah    (b) Tilapia<br>(c) Paneus indicus            (d) Catla catla                                       | K1      | CO1 |
|            | 8            | Frogs are _____<br>(a) Homeothermic    (b) Warm-blooded<br>(c) Poikilothermic    (d) Heterothermic  | K2      | CO2 |
| 5          | 9            | Which one is graminivorous _____<br>(a) Shark                (b) Frog<br>(c) Pigeon                (d) Calotus  | K1      | CO1 |
|            | 10           | How many teeth does a rabbit have?<br>(a) 28                      (b) 26<br>(c) 24                      (d) 20  | K2      | CO2 |

Cont...

**SECTION - B (35 Marks)**Answer **ALL** questions**ALL** questions carry **EQUAL** Marks

(5 × 7 = 35)

| Module No. | Question No. | Question   | K Level | CO  |
|------------|--------------|--|---------|-----|
| 1          | 11.a.        | Classify Phylum Protozoa upto class levels with examples.                  | K2      | CO2 |
|            |              | (OR)   |         |     |
|            | 11.b.        | Show the general characters of Mammals.                                    |         |     |
| 2          | 12.a.        | Illustrate the structure of Paramecium.                                    | K2      | CO2 |
|            |              | (OR)   |         |     |
|            | 12.b.        | Explain the life history of <i>Taenia solium</i> .                         |         |     |
| 3          | 13.a.        | Elucidate the process of circulation in earthworm.                         | K4      | CO4 |
|            |              | (OR)   |         |     |
|            | 13.b.        | Examine the body organisation of Prawn.                                    |         |     |
| 4          | 14.a.        | Explain briefly the arterial and venous system of shark.                   | K2      | CO2 |
|            |              | (OR)   |         |     |
|            | 14.b.        | Relate the process of respiration in frog in the amphibian's mode of life. |         |     |
| 5          | 15.a.        | Elucidate the mechanism of digestion in Pigeon.                            | K4      | CO4 |
|            |              | (OR)   |         |     |
|            | 15.b.        | "Rabbit exhibits a typical mammalian form of body" - Discuss.              |         |     |

**SECTION - C (30 Marks)**Answer **ANY THREE** questions**ALL** questions carry **EQUAL** Marks (3 × 10 = 30)

| Module No. | Question No. | Question  | K Level | CO  |
|------------|--------------|---|---------|-----|
| 1          | 16           | Compare the general characters of Class Amphibia and Class Aves.                | K2      | CO2 |
| 2          | 17           | Differentiate the male and female reproductive system of <i>Taenia solium</i> . | K2      | CO2 |
| 3          | 18           | Contrast the aquatic and aerial respiration of pila.                            | K4      | CO4 |
| 4          | 19           | Elucidate the shark urinogenital system.  | K4      | CO4 |
| 5          | 20           | Explain the respiratory system of Pigeon with suitable diagram.                 | K5      | CO5 |