

PSG COLLEGE OF ARTS & SCIENCE
(AUTONOMOUS)

MSc DEGREE EXAMINATION DECEMBER 2023
(Second Semester)

Branch – ZOOLOGY

MAJOR ELECTIVE COURSE – I :

ECONOMIC ZOOLOGY

Time: Three Hours

Maximum: 50 Marks

SECTION-A (5 Marks)

Answer ALL questions

ALL questions carry EQUAL marks

(5 x 1 = 5)

1. Find out the order of the Earth worm .
(i) Cetacean (ii) mastigophora
(iii) Oligocheta (iv) flagellate
2. Identify the main use of Vermicompost.
(i) soil fertility (ii) water
(iii) temperature (iv) soil acidity
3. Name the male bees in the colony .
(i) Drones (ii) queens
(iii) Worker bees (iv) Italian bee
4. Choose the following hive contains 10 frames used in Himachal Pradesh.
(i) newton model (ii) BIS model
(iii) Longstroth hive (iv) none
- 5 Identify the Queen bees food.
(i) wax (ii) honey
(iii) nector (iv) royal jelly

SECTION - B (15 Marks)

Answer ALL Questions

ALL Questions Carry EQUAL Marks

(5 x 3 = 15)

6. a Explain the Polyculture.
OR
b Discuss the scope and importance of Vermiculture.
- 7 a Discuss the role of vermi technology in organic farming.
OR
b Classify the methods of vermi composting.
- 8 a Illustrate the life cycle of honey bees.
OR
b Explain in detail about Indian bees.
9. a Describe the selection of site for bee hive.
OR
b Organize the inspection of bee hives.
- 10 a Explain the uses of Bee venom.
OR
b Analyze the chemical composition of honey.

SECTION -C (30 Marks)

Answer **ALL** questions

ALL questions carry **EQUAL** Marks

(5 x 6 = 30)

- 11 a Enumerate the life cycle of Earthworm.
OR
b Compare the exotic species and Indigenous species of Earthworms.
- 12 a Design the preparation of Vermi wash.
OR
b Assess the application of Vermi cast.
- 13 a Classify the functions of the worker bees.
OR
b Determine the natural enemies of honey bees.
- 14 a Elucidate the structure of Newton beehive.
OR
b Enumerate the honey extractor and Bee brush.
- 15 a Appraise the medicinal uses of honey.
OR
b Assess the bee wax and its uses.

Z-Z-Z

END