

PSG COLLEGE OF ARTS & SCIENCE
(AUTONOMOUS)

MSc DEGREE EXAMINATION MAY 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 Which of the following nutrients is abundantly found in worm castings?
(i) Phosphorus (ii) Nitrogen
(iii) Potassium (iv) All of these
- 2 Which of the following is a commonly used earthworm species for the vermicomposting process?
(i) *Eisenia fetida* (ii) *Allolobophora chlorotica*
(iii) *Komarekiona eatoni* (iv) *Megascolides australis*
- 3 In which one of the following bee have a bee wax glands are found?
(i) Queen bee (ii) Drone bee
(iii) Worker bee (iv) King bee
- 4 Which of the following species of honey bee is reared in artificial hives?
(i) *Apis indica* (ii) *Apis dorsata*
(iii) *Apis florea* (iv) *Apis cerana*
- 5 Honey is
(i) Nectar of a flower
(ii) Nectar stored in the honey sac
(iii) Nectar mixed with saliva and stored in the honey sac
(iv) Nectar and water sucked by honey bee

SECTION - B (15 Marks)

Answer ALL Questions

ALL Questions Carry EQUAL Marks (5 x 3 = 15)

- 6 a) Explain the importance of vermiculture.
(OR)
b) Assess the methods of mono-vermiculture system.
- 7 a) Evaluate the harvesting and packing of vermicast.
(OR)
b) Determine the applications of vermiwash.
- 8 a) Explain the various uses of honey.
(OR)
b) Illustrate the function of queen bee.
- 9 a) How do you transport beehives in long distance?
(OR)
b) Illustrate the pollen trap and its uses.
- 10 a) Enumerate the medicinal value of honey.
(OR)
b) Classify the benefits of bee venom.

Cont...

SECTION -C (30 Marks)

Answer ALL questions

ALL questions carry EQUAL Marks

(5 x 6 = 30)

- 11 a) Enumerate the life cycle of exotic earthworm *Eudrilus eugeniae*.
(OR)
b) Elucidate the preparation of indoor and outdoor methods of vermiculture.
- 12 a) Design the vermibed and vermicast application in the agricultural practices.
(OR)
b) Determine the role of vermitechnology in organic farming.
- 13 a) Differentiate between the *Apis dorsata* and *Apis indica* culture techniques.
(OR)
b) Interpret the pollen, nectar yield parts and natural enemies of honey bee.
- 14 a) Predict the site selection and methods of getting colony in honey bee.
(OR)
b) Design about the drone trap and Honey extractor.
- 15 a) Enumerate the chemical composition of honey.
(OR)
b) Elucidate the methods of honey extraction.

Z-Z-Z

END