

**F.Y.B.SC. SEM – II (CBCS - 2016 COURSE) : WINTER - 2017**  
**SUBJECT: ZOOLOGY: APPLIED ZOOLOGY**  
**(Vermiculture & Sericulture)**

Day : **Thursday**  
Date : **09/11/2017**

Time: **03.00 PM TO 06.00 PM**  
Max Marks: 60

**W-2017-0566**

**N.B**

- 1) All question are **COMPULSORY**.
- 2) Figures to the **RIGHT** indicate full marks.
- 3) Draw neat labeled diagrams **WHEREVER** necessary.

**Q.1 A)** Attempt all the following: **(06)**

- a) Which of the following is manure processing earthworm species?
  - i) *Eisenia foetida*
  - ii) *Pheretima posthuma*
  - iii) *Perionyx excavatus*
  - iv) *Pheretima elongata*
- b) *Eisenia foetida* and *Eudrilus eugeniae* are
  - i) endogeic species
  - ii) epigeic species
  - iii) anecic species
  - iv) non-descript type
- c) Which animal species is used for the treatment of industrial wastes?
  - i) Cockroach
  - ii) Rat
  - iii) Scoliodon
  - iv) Earthworm
- d) The Tasar silkworms belongs to the genus
  - i) *Antheraea*
  - ii) *Philosomia*
  - iii) *Bombyx*
  - iv) All of these
- e) Main host plant of Tasar silkworm is
  - i) Asan
  - ii) Mulberry
  - iii) Som
  - iv) Castor
- f) *Beauveria bassiana* causes the ----- disease to silkworm.
  - i) Black muscardine
  - ii) White muscardine
  - iii) Green muscardine
  - iv) Yellow muscardine

**B)** Attempt all the following **(06)**

- a) Write the names of soil processing earthworm species.
- b) Define vermiwash.
- c) Define vermiculture.
- d) Define pruning.
- e) Write harvesting methods of mulberry leaves.
- f) Define multivoltine species.

**Q.2** Attempt any **THREE** of the following: **(12)**

- a) Describe manure processing earthworm species.
- b) Give economic importance of vermiculture.
- c) Describe and give importance of rearing stands and mountages used for silkworm rearing.
- d) Describe Tasar and Eri silkworm.

**P.T.O.**

**Q.3** Attempt any **FOUR** of the following: **(12)**

- a) Describe small scale vermicomposting method.
- b) Describe living soil.
- c) Describe post-harvest processing of cocoons.
- d) Write on Pebrine disease.
- e) Write short note on Dermestid beetle.

**Q.4** Attempt any **TWO** of the following: **(12)**

- a) Describe advantages of vermiculture over chemical farming.
- b) Give an account of soil processing earthworm species.
- c) Give an account of rearing house.

**Q.5** Attempt any **TWO** of the following: **(12)**

- a) Describe the factors influencing the culture of earthworms.
- b) Give an account of cultivation of mulberry.
- c) Describe the morphology and life cycle of *Bombyx mori*.

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