

F.Y.B.SC. SEM – II (CBCS - 2016 Course) : WINTER - 2018
SUBJECT: ZOOLOGY : APPLIED ZOOLOGY (VERMICULTURE & SERICULTURE)

Day: Thursday
Date: 25/10/2018

W-2018-0705

Time: 03.00 P.M. To 06.00 P.M
Max. Marks: 60

N.B:

- 1) All questions are **COMPULSORY**.
 - 2) Figures to the **RIGHT** indicate full marks.
 - 3) Draw neat labelled diagrams **WHEREVER** necessary.
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Q.1 A) Attempt all the following : (06)

- a) *Eisenia foetida* belongs to family _____ .
 - i) Eudrilidae
 - ii) Octochatidae
 - iii) Megascolecidae
 - iv) Lumbricidae
- b) Which of the following species of earthworm is used for treatment of different types of industrial effluents _____ .
 - i) *Perionyx excavatus*
 - ii) *Eisenia foetida*
 - iii) *Polypheretima elongata*
 - iv) *Pheretima posthuma*
- c) *Eudrilus eugeniae* and *Eisenia foetida* are _____ .
 - i) epigeic species
 - ii) endogeic species
 - iii) anecic species
 - iv) non descript type
- d) Main food plant of muga silkworm is _____ .
 - i) Mulberry
 - ii) Castor
 - iii) Arjun
 - iv) Som
- e) The Tasar silkworm belongs the genus _____ .
 - i) *Philosomia*
 - ii) *Antheraea*
 - iii) *Bombyx*
 - iv) *Pheretima*
- f) *Beauveria bassiana* causes the disease to silkworm is _____ .
 - i) Black muscardine
 - ii) Green muscardine
 - iii) Yellow muscardine
 - iv) White muscardine

B) Attempt all the following : (06)

- a) Define univoltine species.
- b) Define vermicompost.
- c) Write use of feathers as a rearing appliance.
- d) Define vermiculture
- e) Enlist the names of miscellaneous appliances used in sericulture.
- f) What is living soil?

P.T.O.

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

- a) Write short note on vermicompost.
- b) Describe soil processing earthworm species in brief.
- c) Write short note on green muscardine disease.
- d) Describe muntages an feeding stands used for silkworm rearing.

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

- a) Describe small scale vermicomposting method in house garden.
- b) Write short note on living soil.
- c) Write a note on prevention and control of diseases in sericulture.
- d) Describe post harvest processing of cocoons.
- e) Write systematic position of Mulberry silkworm with reasons.

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

- a) Describe manure processing earthworm species.
- b) Describe large scale vermicomposting in the farm.
- c) Describe harvesting of mulberry.

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

- a) Describe shelf, floor and shoot rearing methods.
- b) Describe the morphology and life cycle of *Bombyx mori*.
- c) Describe the factors influencing the culture of earthworm.

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