

F.Y.B.SC. SEM – II (CBCS - 2016 COURSE) : SUMMER - 2018

SUBJECT: ZOOLOGY: APPLIED ZOOLOGY
(Vermiculture & Sericulture)

Day : Saturday
Date : 28/04/2018

S-2018-0644

Time: 03.00 PM TO 06.00 PM
Max Marks: 60

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) Scientific culturing of earthworm is known as
 - i) Vermiculture
 - ii) Vermitech
 - iii) Apiculture
 - iv) Sericulture
- b) Earthworm is belonging to phylum
 - i) Mollusca
 - ii) Annelida
 - iii) Arthropoda
 - iv) Amphibia
- c) *Eisenia foetida* belongs to family
 - i) Octochaetidae
 - ii) Eudrilidae
 - iii) Lumbricidae
 - iv) Megascolecidae
- d) Scientific name of mulberry silkworm is
 - i) *Antheraea assama*
 - ii) *Antheraea paphia*
 - iii) *Bombyx mori*
 - iv) *Philosomia ricini*
- e) Main host plant of Eri silkworm is
 - i) Mulberry
 - ii) Arjun
 - iii) Som
 - iv) Castor
- f) In sericulture, the disease caused by *Nosema bombycis* is called as
 - i) Muscardine
 - ii) Pebrine
 - iii) Flacherie
 - iv) Grasserie

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

- a) What is vermiwash?
- b) Enlist the factors influencing vermiculture.
- c) Write earthworm species used for treatment of different types of industrial effluents.
- d) Define univoltine species.
- e) Define moriculture.
- f) Write use of chopstick as a rearing appliance.

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

- a) Describe in brief small scale vermicomposting method in garden.
- b) Describe manure processing earthworm species.
- c) What is planting? Describe the methods and factors responsible for planting of mulberry.
- d) Describe Eri and Muga silkworm.

P.T.O.

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

- a) Write short note on vermicompost as biofertilizer.
- b) Write about precautionary measures of vermiculture.
- c) What is pruning? Discuss its objectives.
- d) Describe white muscardine disease.
- e) Describe in brief Uzi flies.

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

- a) Write on living soil.
- b) Describe large scale vermicomposting method.
- c) Describe life cycle of *Bombyx mori*.

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

- a) Give economic importance of vermiculture.
- b) Describe shelf, floor and shoot rearing methods.
- c) Give an account of various rearing appliances used in sericulture.

* * *