

F. Y. B. Sc. (Biotechnology) SEM – I (CBCS - 2015 COURSE) :

WINTER - 2018

Subject: ANIMAL SCIENCE

Day: Monday
Date: 22/10/2018

W-2018-1166

Time: 10.00 AM TO 01.00 PM
Max. Marks: 60

N.B.:

- 1) Q1 and Q5 are compulsory.
 - 2) Answer ANY TWO questions from Q 2, 3, 4 in Section I.
 - 3) Answer ANY TWO questions from Q 6, 7, 8 in Section II.
 - 4) Figures to right indicate FULL marks.
 - 5) Answers to Both the sections to be written in SEPARATE answer books.
 - 6) Draw a labeled diagram WHEREVER necessary.
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SECTION - 01

Q.1) Answer the following: (ANY FIVE) (2 Marks X 5 = 10)

- a) Write functions of liver in rat.
- b) What is composition of blood plasma?
- c) Explain in brief spermatheca of earthworm.
- d) Enlist body apertures in earthworm.
- e) Explain in brief, hypersecretion of GH.
- f) Sketch and label trophozoite stage of *Entamoeba histolytica*

Q.2) Answer the following: (5 Marks X 2 = 10)

- a) Explain habit, habitat and external morphology of earthworm.
- b) Describe intestinal blood vascular system of earthworm.

Q.3) Explain the following: (5 Marks X 2 = 10)

- a) With suitable labeled diagram explain external morphology of rat.
- b) Explain the feed-back mechanism in hormone secretion.

Q.4) Write short notes on the following: (5 Marks X 2 = 10)

- a) With suitable labeled diagram describe male reproductive system in rat.
- b) Describe the life cycle of *Ascaris lumbricoides*.

SECTION - 02

Q.5) Answer the following: (ANY FIVE) (2 Marks X 5 = 10)

- a) Explain habit habitat of *Plasmodium vivax*.
- b) Describe mode of infection of *Entamoeba histolytica*.
- c) Role of Inhibin hormone.
- d) Write hormones of neurohypophysis with their significance.
- e) Define vermicompost and vermiwash.
- f) Write role of oxytocin.

Q.6) Answer the following: (5 Marks X 2 = 10)

- a) Write mode of infection and control of *Entamoeba histolytica* and *Taenia solium*.
- b) Explain economic importance of wild and new silk moth.

Q.7) Explain the following: (5 Marks X 2 = 10)

- a) What is material parasite? Explain its life cycle in brief.
- b) Explain in brief vermiculture in house garden.

Q.8) Write short notes on the following: (5 Marks X 2 = 10)

- a) Explain economic importance of fish for food and leather.
- b) Describe wild and domesticated species of honey bee.
