

**F. Y. B. SC. (BIOTECHNOLOGY) SEM – I (CBCS - 2015
COURSE) : SUMMER - 2018
SUBJECT: ANIMAL SCIENCE**

Day: **Monday**
Date: **02/04/2018**

Time: **10.00 am to 01.00 pm**
Max. Marks: 60

S-2018-1042

N.B.:

- 1) **Q. No. 1 and Q. No. 5 are COMPULSORY.** Answer any **TWO** from Questions **2, 3, 4** and from **6, 7, 8.**
- 2) Answers to both the sections should be written in **SEPARATE** answer book.
- 3) Draw neat labelled diagrams **WHEREVER** necessary.

SECTION-I

- Q.1** Attempt any **FIVE** of the following: (10)
- a) Give systematic position of *Amoeba*.
 - b) Enlist body apertures in earthworm.
 - c) Write in brief functions of liver in rat.
 - d) Give the functions of hormone oxytocin.
 - e) Sketch and label scolex of *Taenia solium*.
 - f) Explain role of workers in bee hives.
 - g) Give important applications of vermicompost.
- Q.2** Attempt the following questions: (10)
- a) With well labelled diagram describe digestive system of rat.
 - b) Describe nervous system of earthworm.
- Q.3** Attempt the following questions: (10)
- a) Define blood. Explain different types of blood cells with their functions.
 - b) Describe life cycle and *Plasmodium vivax* in man.
- Q.4** Write short notes on any **TWO** of the following: (10)
- a) What is respiration? Explain respiratory system of rat.
 - b) Explain significance of classification.
 - c) Explain female sex hormones with their role.

SECTION-II

- Q.5** Attempt any **TWO** of the following: (10)
- a) Define Sexual dimorphism and explain it in rat.
 - b) What is excretion? Write brief structure of septal nephridium in earthworm.
 - c) Describe different types of earthworm species used for vermicomposting.
- Q.6** Attempt the following questions: (10)
- a) Explain mode of infection, pathogenicity and control measures in *Taenia solium*.
 - b) Write note on Tasar and Muga species of silk moth.
- Q.7** Attempt the following questions: (10)
- a) Explain in brief importance of milk and its products.
 - b) Write a note on fish manure and fish oil.
- Q.8** Describe the life cycle of *Entamoeba histolytica* and add a note on its mode of infection, pathogenicity and control measures. (10)

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