

Date: 11.10.2019

Time: (03 Hours)

Total Marks: 100

- N.B. (1) All questions are compulsory.  
(2) Figures to the right indicate full marks.  
(3) Draw **neat labeled diagrams** wherever **necessary**.

- Q.1. A) Fill in the blanks by choosing appropriate option from the following. (05)
- a) Wolfgang Kohler conducted experiments on insight learning in.....  
(Dogs, Cats, Chimpanzees, Hanuman Langur)
  - b) Conditioning was demonstrated in dogs by .....  
(Niko Tinbergen, Kohler, Thorpe, Ivan Pavlov)
  - c) Humans are infected by eating improperly cooked meat containing.....  
(*Faciola*, *Taenia*, *Clonorchis*, *Entamoeba*)
  - d) Which parasite is associated with mosquito?  
(*E. vermicularis*, *W. bancrofti*, *D. medinensis*, *T. solium*)
  - e) *Apis dorsata* refers to.....  
(Indian bee, Little bee, Rock bee, European bee)
- B) Match the following (05)
- | Column 'A'                 | Column 'B'              |
|----------------------------|-------------------------|
| a) Stickleback fish        | a) Ectoparasite         |
| b) Puzzle box              | b) Cottage cheese       |
| c) Bed bug                 | c) Fixed Action Pattern |
| d) <i>Faciola hepatica</i> | d) Thorndike            |
| e) Paneer                  | e) Liver fluke          |
- C) Write whether **True** or **False**. (05)
- a) Imprinting in animals takes place during sensitive period of development.
  - b) Innate behaviour is necessary for survival of species.
  - c) Parasites require only one type of host to complete lifecycle.
  - d) Intestinal Helminths can cause malnutrition of host.
  - e) Milk, lettuce and butter are foods from the dairy group.
- D) Answer the following in one sentence. (05)
- a) Define – Filial Imprinting
  - b) Give any one example of Batesian Mimicry.
  - c) Which disease is caused by filarial worm?
  - d) Define – Endoparasite
  - e) Define - Apiculture
- Q.2. A) Answer **any one** of the two. (10)
- a) What is classical conditioning? Explain with an example.
  - b) What is the significance of mimicry and warning coloration?

PTO

- B) Answer **any two** out of the four. (10)
- a) Territorial behaviour
  - b) Imprinting
  - c) Innate learning
  - d) Altruism
- Q.3. A) Answer **any one** of the two. (10)
- a) Give an account of the life history of *Fasciola hepatica*.
  - b) Give an account of the life history of filarial worm and discuss its pathogenic effects.
- B) Answer **any two** out of the four. (10)
- a) Illustrate the complete life history of *T. solium* with the help of diagram only.
  - b) Describe the life cycle of *Wuchereria bancrofti*.
  - c) How is rabies transmitted in human?
  - d) What are the preventive measures to be taken to prevent infection of rabies virus?
- Q.4. A) Answer **any one** of the two. (10)
- a) Define dairy science. Explain the dairy development in India.
  - b) Describe the different methods of Vermiculture.
- B) Answer **any two** out of the four. (10)
- a) Chemical composition of honey
  - b) Advantages and demands for earthworms
  - c) Composition of milk
  - d) Method of Barfi making
- Q.5. Write short notes on **any four** out of six. (20)
- a) Displacement activities
  - b) Communication in Ants
  - c) Control measures of *E. histolytica*
  - d) Control measures of Bed bug
  - e) Role of Honey bee in pollination
  - f) Method of Paneer making

\*\*\*\*\*