6 SEM TDC ZOO M 1

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(May)

ZOOLOGY

(Major)

Course : 601

(Parasitology and Ethology)

Full Marks : 48
Pass Marks : 19

Time : 2 hours

*The figures in the margin indicate full marks
for the questions*

1. Select the correct answer from the options of
   the following :   1×5=5

   (a) The name of the pathogen for Chagas'
   disease is

      (i) Giardia intestinalis

      (ii) Trypanosoma cruzi

      (iii) Leishmania chagasi

      (iv) Plasmodium falciparum

(Turn Over)

(b) Rocky Mountain spotted fever is caused by

   (i) Borrelia

   (ii) Treponema

   (iii) Rickettsia

   (iv) Leptospira

(c) The intermediate host of filarial worm *Wuchereria bancrofti* in India is

   (i) Cyclops

   (ii) *Culex pipiens fatigans*

   (iii) *Oncomalania*

   (iv) *Phlebotomus sergenti*

(d) Instinct is

   (i) flexible and learned

   (ii) rigid and unlearned

   (iii) established mechanism

   (iv) None of the above

(e) Animals learn in their free time via

   (i) trial and error learning

   (ii) latent learning

   (iii) habituation

   (iv) experience

2. Answer the following questions very briefly :

    (a) What is courtship behaviour? Mention a conspicuous feature of courtship behaviour.   1+1=2

    (b) Define orientation behaviour and mention two categories of orientation behaviour towards various stimuli on animals.   1+2=3

    (c) Mention three adaptive features on the body of a Trematoda as parasite studied by you.   3

3. What is Leishmaniasis? Describe the mode of infection and pathogenicity of the parasite for the disease.   1+5+3=9

Or

Describe the general organization and pathogenicity of Leptospira.   5+4=9

4. Define ethology. Write an account of instinctive and learning behaviour of animals with suitable examples.   1+4+4=9

5. What is communication behaviour? Write an account of visual and chemical communication found in animals.   1+4+4=9

6. Write short notes on any *two* of the following : 4×2=8

   (a) Control measures of vector of Japanese B-encephalitis

   (b) Ecological aspects of animal behaviour

   (c) Motivation

   (d) Weil's disease

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