

6 SEM TDC ZOO M 1

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(May)

ZOOLOGY

(Major)

Course : 601

(Parasitology and Ethology)

Full Marks : 48

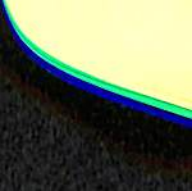
Pass Marks : 19/14

Time : 2 hours

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

1. Select the most appropriate answer of the following : 1×5=5

- (a) Learning is closely associated to
- (i) environment exposure
 - (ii) genetical set-up of the animal
 - (iii) hormonal activity
 - (iv) memory



- (b) Polarized light is an important cue for
- (i) orientation
 - (ii) imprinting
 - (iii) source of food
 - (iv) social gatherings
- (c) Japanese B encephalitis is caused by
- (i) *Plasmodium vivax*
 - (ii) *Plasmodium falciparum*
 - (iii) *Anopheles*
 - (iv) *Culex*
- (d) Biological control of mosquito can be done by an exotic organism i.e.,
- (i) aquarium fish
 - (ii) larvicidal fish
 - (iii) *Gambusia affinis*
 - (iv) aromatic plants
- (e) Pathogenic intensity of helminthes can be controlled to a large extent by
- (i) use of pesticides
 - (ii) cleansing environment
 - (iii) abandoning defaecation in the open
 - (iv) anti-helminthic drugs

2. (a) Mention how parasites protect themselves inside the alimentary canal of the host. 4

(b) Give an outline description of pathogenicity of any helminth parasite you studied. 4

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

(a) General organization of virus

(b) Dengue

(c) Nature versus nurture theory

4. Describe with necessary illustration, the life history of either *Leishmania donovani* or *Giardia intestinalis*. 7+2=9

5. Discuss elaborately on the role of nervous system and hereditary aspects of animal behaviour with suitable examples. 5+4=9

Or

Define communication. Give an outline of different modes of communication found in the world of animals. 2+7=9

6. Write notes on any *three* of the following :

3×3=9

- (a) FAP
- (b) Pioneers of modern ethology
- (c) Waggle dance
- (d) Imprinting behaviour
- (e) Habituation

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