

2022

ZOOLOGY — HONOURS

Paper : DSE-A-1

(Parasitology)

Full Marks : 50

The figures in the margin indicate full marks.

Candidates are required to give their answers in their own words as far as practicable.

Answer **question no. 1** and **any four** questions from the rest.

1. Answer **any fifteen** questions :

2×15

- (a) What is parasitoid? Give one example.
- (b) What are mechanical vectors? Give one example.
- (c) Name two plant parasitic nematodes with their host choice.
- (d) Name the different polymorphic forms of *Trypanosoma gambiense*.
- (e) Enumerate the major symptoms of Schistosomiasis.
- (f) Highlight blood drinking habit of hood mocking bird.
- (g) What is measly pork?
- (h) Mention the parasitic behaviour of Cookie-cutter shark.
- (i) Distinguish between ectoparasitism and endoparasitism with examples.
- (j) What is Swimmer's itch?
- (k) Mention two important features of trophozoite of *Giardia intestinalis*.
- (l) What is parasitic castration?
- (m) What is Loeffler's syndrome?
- (n) Name the larval forms of *Ancylostoma duodenale*.
- (o) Mention the habitat of amastigote and promastigote forms of *Leishmania donovani*.
- (p) What is neurocysticercosis?
- (q) Mention the drugs for treatment of Kala-azar and Sleeping sickness.
- (r) What is the parasitic importance of Flea?
- (s) Distinguish between male and female *Ascaris* sp.
- (t) What is PKDL?

Please Turn Over

2. (a) Write briefly on epidemiology and modes of transmission of *Wuchereria bancrofti*.
(b) Distinguish between hexacanth and oncosphere. (2+2)+1
 3. (a) Describe the development of *Taenia solium* in the secondary host. 3+2
(b) What is occult filariasis?
 4. (a) Schematically represent the life cycle of *Ancylostoma duodenale*. 3+2
(b) Mention the diagnosis and treatment of *Trypanosoma gambiense*.
 5. Name one cyst nematode and one root-knot nematode. Mention the control of plant nematode. What is the function of stylet? 2+2+1
 6. (a) Describe with suitable diagram the structure of microfilaria of *Wuchereria bancrofti*. 3+2
(b) How is taeniasis diagnosed?
 7. (a) Distinguish between Soft tick and Hard tick with example.
(b) Draw with labelled diagram of mouth parts of a tick. How do ticks transmit disease? 2+(1+2)
 8. (a) Write briefly on the parasitic behaviour of Vampire bats.
(b) Distinguish between hyperparasitism and brood parasitism. 3+2
 9. Write short notes on (*any two*) : 2½+2½
 - (a) Scabies
 - (b) Microfilarial Periodicity
 - (c) *Xenopsylla*
 - (d) Larva migrans.
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