

2020

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 are the differences between obligate and facultative parasite?
- (b) What is PKDL? Name the vector of this disease.
- (c) Mention two important features of promastigote stage of *Leishmania donovani*.
- (d) Distinguish between vector and reservoir. Give examples.
- (e) What are the definitive and intermediate hosts of *Schistosoma haematobium*?
- (f) Name one cestode and one trematode parasite of human host.
- (g) What do you understand by primary and secondary host? Give example from each.
- (h) Distinguish between male and female *Ascaris lumbricoides*.
- (i) What is nocturnal periodicity of filarial worm?
- (j) What is Loeffler's pneumonia?
- (k) What is the full form of VSG? Where it is found?
- (l) Name the disease caused by *Trypanosoma gambiense*. Why it is called so?
- (m) What is 'LD bodies'? Why it is called so?
- (n) Name one antileishmanial and one anthelmintic drug.
- (o) What are the pathogenic symptoms of elephantiasis?
- (p) Which parasite can increase the risk of developing urinary bladder infection?
- (q) Mention the pathogenicity caused by *Giardia intestinalis*.
- (r) What is molecular mimicry?
- (s) Distinguish between hard tick and soft tick.
- (t) Define parasitoid with example.

Please Turn Over

- (u) Mention the medical importance of *Xenopsylla* sp.
- (v) What is cysticercosis?
- (w) Mention the important features of Hood Mocking bird.
- (x) Mention the parasitic behaviour of Vampire bat.
- (y) Name two host species of Cookiecutter shark.
2. (a) Distinguish between parasitism and commensalism with examples from each.
- (b) How does biological vector differ from mechanical vector? — Illustrate with example. 3+2
3. (a) Describe the characteristic features of bloodstream trypanosome of *T. gambiense*.
- (b) Mention the important prophylaxis measures against Giardiasis. 3+2
4. (a) Schematically represent the life cycle of *Ascaris lumbricoides*.
- (b) Briefly point out the pathogenicity caused by the above parasite. 3+2
5. (a) Comment on pathogenicity and control measures of *Schistosoma haematobium*.
- (b) Discuss the control management of Bed bugs. 3+2
6. (a) Write down the characteristic features of different forms of *Giardia intestinalis* with labelled diagram.
- (b) Explain its life cycle with schematic representation. 2½+2½
7. (a) Briefly describe the life cycle of *Leishmania donovani* with suitable word diagram.
- (b) Mention the structural features of microfilaria. 3+2
8. (a) Name any two diseases, each transmitted by *Ixodes* sp. and *Cimex* sp.
- (b) Write the name of any two plant nematode mentioning the diseases caused to the host plant. 2+3
9. (a) Name the infective stage of *Ancylostoma duodenale*.
- (b) Describe the developmental phases of *Ancylostoma duodenale* in soil.
- (c) Write on the pathogenicity of *Ancylostoma duodenale*. 1+2+2
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