

This question paper contains 4 printed pages]

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S. No. of Question Paper : 8063

Unique Paper Code : 2233012008

Name of the Paper : DSE-8, Parasitology

Name of the Course : B.Sc. (H) Zoology (NEP)

Semester : IV, (DSE-8)

Duration : 3 Hours

Maximum Marks : 90

(Write your Roll No. on the top immediately on receipt of this question paper.)

Attempt any *five* questions in all, including

Question No. 1, which is compulsory.

1. (i) Explain the following terms :

5×2=10.

(a) Incubation period

(b) Facultative parasite

(c) Schizogony

(d) Strobila

(e) Apolysis.

P.T.O.

- (ii) Match the following terms in the column A with the organism in column B : 5

'A'

'B'

- | | |
|-------------------------|-------------------------------|
| (a) Organ of Berlese | (i) Flea |
| (b) Promotal Comb | (ii) <i>Plasmodium vivax</i> |
| (c) Sporozoite | (iii) <i>Cimexlectularius</i> |
| (d) Oncosphere | (iv) <i>Schistosoma</i> spp |
| (e) Gynaecophoric canal | (v) <i>Taenia solium</i> |

- (iii) Differentiate between any *five* of the following terms : 5×2=10

- (a) Primary host and Secondary host
- (b) Parasite and Host
- (c) Gravid and Mature proglottid
- (d) Epidemic and Endemic disease
- (e) Monogenetic and Digenetic life history
- (f) Head louse and Body louse.

(iv) Write the vector of the following :

5

(1) Cholera

(2) Malaria

(3) Leishmaniasis

(4) Elephantiasis

(5) Plague.

2. What is digenetic life cycle ? Explain it with reference to life history of *Fasciolopsis buski*. 15

3. Explain the life cycle, pathogenicity and control of *Trichinella spiralis*. 15

4. What are the clinical manifestations of *Wuchereria bancrofti* ? How is it transmitted, diagnosed and treated ? 15

5. Discuss in detail about the morphology, life-cycle and pathogenicity of *Trypanosoma gambiense*. 15

6. (i) With the help of a neat and labelled diagram write detailed note on the life cycle of *Xenopsylla cheopis*. 7

(ii) State the habit and habitat of *Xenopsylla cheopis*. Give the medical importance of this insect. 8

7. Write short notes on any *three* of the following :

3×5=15

- (a) *Ascariasis*
- (b) Life cycle of *Entamoeba histolytica*
- (c) Biology of *Pediculus humanus*
- (d) Vampire bat
- (e) Life cycle of *Ascaris lumbricoides*.