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Your Roll No.....

Sr. No. of Question Paper : 9280

J

Unique Paper Code : 2233012008

Name of the Paper : DSE-8, Parasitology

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

Semester : IV

Duration : 3 Hours

Maximum Marks : 90

Instructions for Candidates

1. Write your Roll No. on the top immediately on receipt of this question paper.
2. Attempt any five questions in all including question No. 1, which is compulsory.

1. (i) Explain the following terms : (5)

- (a) Vector
- (b) Parasitoid
- (c) Facultative parasite
- (d) Rostellum
- (e) Amastigote

(ii) Differentiate the following : (2×5=10)

- (a) Definitive host and Intermediate host
- (b) Mechanical vector and biological vector
- (c) Parasitism and commensalism
- (d) Host and Reservoir
- (e) Head louse vs. body louse

(iii) Fill up the following blanks : (5)

- (a) The egg stage of _____ is known as a nit.
- (a) _____ bacteria cause plague disease.
- (b) The eggs of *Ascaris lumbricoides* have _____ shell.
- (c) _____ is the larval form of *Cyclopus*.
- (d) _____ acts as an intermediate host for the *Fasciola hepatica*.

P.T.O.

(iv) Draw well labelled diagram of the followings : (5)

(a) Reproductive system of mature proglottid structure of *Taenia Solium*.

(b) Cystic stages in life cycle of *Entamoeba histolytica*.

(v) Match the following : (5)

A

B

(a) *Pediculus humanus*

(i) Blood fluke

(b) *Trypanosoma gambiense*

(ii) cannot complete life cycle without host

(c) *Schistosoma haematobium*

(iii) Transmits pathogen without development

(d) Obligate parasite

(iv) Vector of typhus

(e) Mechanical vector

(v) Tse-tse fly vector

2. (a) Describe the life cycle and medical importance of *Trichinella spiralis*. (7)

(b) Explain the biology, importance, and control of *Cimex lectularius*. (8)

3. Describe the life cycle With a schematic diagram. Add a short note on the prophylaxis and treatment of the diseases caused by *Taenia solium*. (15)

4. Describe the life cycle of the parasite that causes malaria. How is it transmitted? Describe its pathogenesis, diagnosis, and treatment. Give some important measures to prevent the diseases. (15)

5. Describe the morphology, life cycle, laboratory diagnosis and treatment of *Fasciolopsis buski*. (15)

6. (a) Discuss in details the Epidemiology, medical importance, and treatment of *Entamoeba histolytica*. (10)

(b) Write the pathogenicity of *Plasmodium vivax*. (5)

7. Write short notes on any **three** of the following : (3×5=15)

(a) Vampire Bat

(b) Biology of *Pediculus humanus*

(c) African sleeping sickness

(d) Epidemiology of *Trichinella spiralis*

(e) Host parasite relation