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Your Roll No.....

1353

**B.Sc. (Hons.)III** **A**

**ZOOLOGY—Paper X-C**

**(Medical Zoology)**

**(Admissions of 2004 onwards)**

*Time : 3 Hours*

*Maximum Marks : 55*

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

Attempt *five* questions in all, including

Question No. 1 which is compulsory.

1. (a) Name the pathogen causing each of the following :

(i) Pernicious malaria

(ii) Kala-azar

(iii) Elephantiasis

(iv) Epidemic typhus.

4

P.T.O.

- (b) Differentiate between the following :
- (i) Benign tumor and malignant tumor
  - (ii) Epidemic disease and pandemic disease
  - (iii) Anaphylaxis and prophylaxis. 6
- (c) Define each of the following :
- (i) Retrograde infection
  - (ii) Incubation period
  - (iii) Steatorrhea. 3
- (d) Write scientific name of vector/intermediate host each of the following :
- (i) Japanese  $\beta$  encephalitis
  - (ii) Chaga's disease
  - (iii) Visceral leishmaniasis. 3
- (e) Name the infective stage each of the following :
- (i) *Entamoeba histolytica*
  - (ii) *Trypanosoma brucei*
  - (iii) *Echinococcus granulosus*. 3

2. Describe life cycle, mode of infection and pathogenicity of *Dracunculus medinensis*. 9
3. Write histopathological notes on :
- (i) Chronic glomerulonephritis
  - (ii) Characteristics of cancerous cell
  - (iii) Lipoid nephrosis. 3,3,3
4. (a) Describe mode of infection, clinical symptoms and preventive measures of cholera.
- (b) Describe the immunization methods that are employed for the control of Typhoid. 6,3
5. (a) Describe sexual cycle of *Plasmodium*.
- (b) Draw labelled diagrams only of :
- (i) Egg of *Schistosoma*
  - (ii) Promastigote of *Trypanosoma*
  - (iii) Cyst of *Giardia*. 6,1,1,1

6. Give scientific names of Rat Flea. Describe its role as vector of human diseases and suggest measures of its control. 9

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

(i) Late stage of alcoholic cirrhosis

(ii) Delayed hypersensitivity

(iii) *Pediculus*

(iv) Spirochaete.

3,3,3