

B.A./B.Sc. - 6th Semester  
(2721)

## Paper : Zoology Zoo-VI A Opt(i) Medical Zoology

Time allowed: 2 hrs.

Max. Marks: 35

Note: There are EIGHT questions of equal marks. Candidates are required to attempt any FOUR questions.

## SECTION - A

Q. 1 a) Write briefly about the following:

- i) Intermittent parasites
- ii) Predators versus parasites
- iii) Immune evasion

$$(1\frac{1}{4} \times 3 = 3\frac{3}{4})$$

- b) Structure of all viruses is designed to meet four fundamental needs, mention these needs.  $(2\frac{1}{2})$
- c) Write a note on Spirochaetes.  $(2\frac{1}{2})$

Q. 2 Give the causative agent, symptoms and control measures of Typhoid, also highlight the programme implemented by Government for the eradication of this disease.  $(8\frac{3}{4})$

## SECTION - B

- Q. 3 a) Give an account on the morphology and pathogenicity of *Trichomonas* in humans, also write what control measures should be used for its prevention.  $(6\frac{1}{4})$
- b) Write a note on Chagas's disease.  $(2\frac{1}{2})$

Q. 4 Discuss about the life history of *Ancylostoma* also explain the pathogenesis, prophylaxis and control of disease caused by this helminth.  $(8\frac{3}{4})$

Contd.... P/2

(2)

## SECTION - C

- Q. 5 a) Write about the Plague disease, also explain the two common forms of plague found in India. (4)
- b) Write a note on Japanese Encephalitis. (2 $\frac{3}{4}$ )
- c) Which causative organism and vector is responsible for the cause and spreading of the following diseases: (2)
- i) Yellow fever ii) Malaria
- Q. 6 a) Discuss about the Dengue fever, which mosquito spreads this disease also give pathogenesis of this disease. (6 $\frac{1}{4}$ )
- b) Write a note on Epidemic Typhus. (2 $\frac{1}{2}$ )

## SECTION - D

- Q. 7 a) Differentiate between the following: (5)
- i) First line of defence and second line of defence
- ii) T lymphocytes and B lymphocytes
- b) What are the various features of specific immune defense mechanism. (3 $\frac{3}{4}$ )
- Q. 8 a) What do you mean from cell mediated immune response, discuss about the mechanism of this type of immunity. (5)
- b) Write a note on phagocytes and the mechanism of phagocytosis. (3 $\frac{3}{4}$ )

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