

[This question paper contains 4 printed pages.]

Your Roll No.....

Sr. No. of Question Paper : 1347

I

Unique Paper Code : 2233012003

Name of the Paper : Medical Zoology

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

Semester : III (DSE-3)

Duration : 3 Hours

Maximum Marks : 90

Instructions for Candidates

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

1. (a) Define the following : _____ (2×5=10)

- (i) Density-dependent inhibition
- (ii) Atherosclerosis
- (iii) Virulence
- (iv) Nyctalopia
- (v) Merozoites

P.T.O.

(b) Distinguish between :

(2×4=8)

- (i) Rickets and Osteoporosis
- (ii) Coronavirus and Rhinovirus
- (iii) Niacin deficiency and Thiamine deficiency
- (iv) Parasitism and Commensalism

(c) State True or False :

(1×4=4)

- (i) Severe lymphedema of limbs and genitalia are common clinical manifestations of intestinal hookworm infection.
- (ii) Aphids feed on phloem of plant stems with their piercing mouthparts and excrete sugary fluid. Ants carry aphids to different food sources, and protect them from predation. This is an example of mutualism.
- (iii) *Tsetse* fly is a vector that causes schistosomiasis.
- (iv) Leptospirosis is a zoonotic disease.

(d) Fill in the blanks :

(1×4=4)

- (i) The agents that cause cancer are called _____.

(ii) The epidemiological triad model of infectious diseases causation includes _____ and, _____ besides environment.

(iii) _____ is the causative organism of typhoid.

(iv) Congenital hypothyroidism is also commonly called as _____.

— (e) Expand the following: (1×4=4)

(i) SARS

(ii) HIV

(iii) MMR —

(iv) IBD

2. (a) Describe the pathogenesis of *Mycobacterium tuberculosis*. (7)

(b) Explain how diabetes mellitus is different from diabetes insipidus. (8)

3. (a) Write a note on life history and pathogenicity of *Entamoeba histolytica*. (5)

(b) Describe the biology of tumor growth, invasion and metastasis. (10)

P.T.O.

4. (a) Explain transmission, prevention and control of malaria. (7)
- (b) What are the causes and symptoms of scurvy and anaemia? How is obesity linked with cardiovascular diseases? (8)
5. (a) Write a note on Vitamin D deficiency. (5)
- (b) Differentiate between marasmus and kwashiorkor. (5)
- (c) Explain symptoms, diagnosis and treatment of Lyme's disease. (5)
6. (a) Give a brief account on *Treponema* and mumps virus with suitable diagrams. (7)
- (b) Describe cause, symptoms and treatment of Cushing's syndrome. (8)
7. Write a short note on the following (any three): (5×3=15)
- (a) Rickettsia
 - (b) Grading and staging of cancer
 - (c) Measles
 - (d) Crohn's disease
 - (e) AIDS