

- (b) Briefly discuss the indirect mode of transmission of communicable disease. (5)
5. (a) Explain the basic principles of "R" software and its applications in tabulation and graphical representation of epidemiological data. (7.5)
- (b) Briefly describe morbidity, mortality and fertility rates as indicators of health. (7.5)
6. Write short notes on **any three** of the following:
(5X3=15)
- (a) Measures of central tendency
- (b) Ethical issues in an epidemiological study
- (c) Source of bias in case control studies
- (d) Surface infections

[This question paper contains 4 printed pages.]

Your Roll No.....

आपका अनुक्रमांक.....

Sr. No. of Question Paper : 3411

I

Unique Paper Code : 2234000008

Name of the Paper : GE-12: Introduction to Public Health and Epidemiology

Name of the Course : **B.Sc. (H) Zoology, Theory Examination Nov-Dec, 2024**

Semester : V (NEP-UGCF)

Duration : 2 Hours Maximum Marks : 60

Instructions for Candidates

1. Write your Roll No. on the top immediately on receipt of this question paper.
2. Attempt any '**four**' Questions in total. **Question No. 1 is compulsory.**
3. Attempt all parts of the question together. All questions carry equal marks.

3411

2

1. (a) Define : (4)

(i) Public health

(ii) Communicable disease

(iii) Fomites

(iv) Droplet infection

(b) Differentiate between (any 3): (6)

(i) Endemic and Epidemic disease

(ii) Carrier and Vector

(iii) Transovarial and Transstadial transmission

(iv) Primary host and Secondary host

(c) Fill in the blanks: (3)

(i) DENV is causative agent of.....

(ii) Only human disease eradicated from the world is.....

(iii)is the causative agent of lymphatic filariasis.

3411

3

(d) Expand the following (any 2): (2)

(i) DOTS

(ii) MDR-TB

(iii) WHO

2. (a) Give an overview of arthropod borne diseases. Add a note on the cause, extent, prevention and management of malaria. (7.5)

(b) Explain any one respiratory infection in detail giving its epidemiological determinants, control and management. (7.5)

3. (a) Define zoonoses and describe different types of zoonoses. Explain any one zoonotic disease in terms of its causative agent, transmission, control and treatment. (10)

(b) Discuss the epidemiology of poliomyelitis. Add a note on the strategies of polio eradication in India. (5)

4. (a) Define epidemiology. Enumerate different types of epidemiological study designs with suitable examples. (10)

P.T.O.