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[This question paper contains 4 printed pages.]

Your Roll No.....

Sr. No. of Question Paper : 1663

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Unique Paper Code : 3183012003

Name of the Paper : Social and Preventive  
Medicine (DSE)

Name of the Course : B.Sc. (H) Biomedical  
Sciences

Semester : III (NEP-UGCF)

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 **five** questions in all.
3. Question no. **1** is compulsory.
4. Attempt subparts of a question together.

1. (a) Define (**Any Five**) : (1×5=5)

(i) Sporadic infection

(ii) Morbidity

P.T.O.

(iii) DALY

(iv) Triple blind trial

(v) Odds Ratio

(vi) Retrospective study

(b) Differentiate between the following (**Any Three**)  
(3×3=9)

(i) Mortality and Morbidity

(ii) Descriptive and Analytical epidemiology

(iii) Cross sectional and Longitudinal study

(iv) Communicable and Non-communicable disease

(c) State the formulas for (**Any Two**) (2×2=4)

(i) Crude death rate

(ii) Case fatality rate

(iii) Relative risk

2. Write a short note on (**Any four**) (4.5×4=18)

(a) Epidemiological triad

- (b) Multifactorial aetiology of disease
  - (c) Measures of Infertility.
  - (d) Breast cancer treatment and control
  - (e) NHPCE
3. (a) The DOTS (Directly Observed Treatment, Short-course) strategy continues to be a cornerstone of the public health approach within the framework of the Stop TB strategy. Elucidate what DOTS entails and outline its advantages. (6)
- (b) What makes up the Oral Rehydration Solution (ORS), and how does it contribute to the treatment of patients with cholera? (5)
- (c) Do you concur that the socioeconomic impact of typhoid is substantial, and could you provide reasons for your stance? Additionally, what can we learn from the classic case of "Typhoid Mary," and in the context of India, what are the top three approaches to controlling typhoid? (4)
- (d) What factors contribute to the elevated levels of drug resistance in tuberculosis in developing countries? (3)

4. (a) What are the warning signs for poor mental health? Explain the causes behind mental ill health and preventive measures that can be adopted to ensure mental well-being. (9)
- (b) What is demographic transition? Explain the various sources of demographic data. (9)
5. (a) What is Mission Indradhanush? Describe the Immunization Programme of India, in detail. What modifications will you recommend to the existing NIS? (9)
- (b) Describe the tools used by an epidemiologist to expresses the magnitude of the disease. (9)
6. (a) With the help of a schematic diagram, do a comparative analysis of a case-control study and cohort study. How does one ensure comparability between cases and controls? (9)
- (b) What are the causes and types of hypertension? What preventive and control measures can be taken to prevent hypertension? Discuss in detail. (9)