

**SOCIAL AND PREVENTIVE MEDICINE**

PAPER – I

SPM/D/16/45/I

Time : 3 hours

Max. Marks : 100

**Important instructions:**

- Attempt all questions in order.
- Each question carries 10 marks.
- Read the question carefully and answer to the point neatly and legibly.
- Do not leave any blank pages between two answers.
- Indicate the question number correctly for the answer in the margin space.
- Answer all the parts of a single question together.
- Start the answer to a question on a fresh page or leave adequate space between two answers.
- Draw table/diagrams/flowcharts wherever appropriate.

Write short notes on:

1. a) Define epidemiology. 1+3+6  
b) Classify epidemiological studies.  
c) Procedures followed in descriptive studies.
2. a) Differentiate between incidence and prevalence with illustrative examples of each. 6+4  
b) How are migrant studies conducted?
3. a) Differentiate between “source” and “reservoir” of infection. 3+7  
b) Role of human reservoir in the dynamics of disease transmission.
4. a) Epidemiology of Japanese Encephalitis. 2+4+4  
b) Guidelines for management of Acute Encephalitis Syndrome including Japanese Encephalitis.  
c) Measures for control of Japanese Encephalitis in a community.
5. a) Yellow Fever Vaccine. 3+3+4  
b) Essen regime for IM administration of rabies vaccine for Post Exposure Prophylaxis.  
c) Prevention of tetanus after injury.
6. a) Bacteriological index in Leprosy. 3+3+4  
b) Lepromin test.  
c) WHO recommendation for treatment of leprosy in children aged 10-14 years.
7. a) Define zoonoses. 1+4+5  
b) Classify zoonoses of public health importance.  
c) Measures for control of zoonoses.
8. Submit a plan for a case control study with an illustrative example. 10
9. a) What is “iceberg phenomenon of disease”? 4+4+2  
b) Differentiate between screening and diagnostic test.  
c) What is lead time?
10. 20 students have been admitted to the PHC with diarrhea after taking a ‘mid day meal’ in school. Submit an investigation plan for the above incident. 10

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