

# Question Paper

Exam Date & Time: 07-Dec-2023 (10:20 AM - 01:00 PM)

**MANIPAL ACADEMY OF HIGHER EDUCATION**  
**THIRD PROFESSIONAL YEAR MBBS PART I DEGREE EXAMINATION - DECEMBER 2023**  
**SUBJECT : COMMUNITY MEDICINE - PAPER - I**  
**(CBME BATCH - REGULARS)**

**Marks: 80**

**Duration: 160 mins.**

**Answer all the questions.**

**Long Essay:**

1. A 35-year-old, male Suresh, construction worker, presents to the primary health centre accompanied by his wife and 5-year-old child, with complaints of cough associated with blood tinged sputum for 3 weeks and weight loss of 4 kgs in the past two months. On subsequent investigations, Suresh is diagnosed to have drug sensitive Pulmonary tuberculosis.
  - 1A) Describe the treatment regimen for Suresh according to the National guidelines. (2)
  - 1B) Discuss the diagnostic algorithm for TB under the national program. (5)
  - 1C) Mention the dose and duration of chemoprophylaxis for his child. (2)
  - 1D) What advice would you give on coughing out sputum? (1)
  
2. Describe Natural history of a disease with Diabetes mellitus as an example. Discuss the application of various levels of prevention and modes of intervention for the same. (5+5 = 10 marks)

**3. Short answers:**

- 3A) A staff nurse at your hospital gets needle prick injury when she was drawing blood from an HIV infected patient and comes to you for advice. Prepare a management plan for her according to standard guidelines. (4)
- 3B) Explain the major types of epidemics as per the time distribution trends seen in descriptive studies with an example for each. (4)
- 3C) Explain the various indicators of air pollution. (4)
- 3D) Discuss the various cultural factors that are implicated in health and disease causation in India with suitable examples. (4)
- 3E) A researcher wants to study whether smoking is associated with CNS lymphoma, a rare type of cancer. Which is the most appropriate study design that can be used by the researcher? Explain in brief the steps of conducting the study. (1+3 = 4 marks)
- 3F) Explain the concept of lead time in screening with a suitable example. (4)
- 3G) A team of epidemiologists are planning to conduct a house to house survey to find out the coverage of routine immunization in Udipi district. Describe the various sampling methods that can be adopted to select houses. (4)
- 3H) A patient is admitted in a Community health centre with symptoms of high-grade fever, headache and retro-orbital pain. Blood investigation report indicates positive for NS1 antigen. Explain the clinical management of this patient. (4)

- 3I) Discuss the management of a case of acute respiratory infection in a child of 3 years in a Primary health centre according to Integrated Management of Neonatal and Childhood Illness guidelines. (4)
- 3J) A 5 year old child is brought to your clinic with history of dog bite one hour ago. On examination there are multiple trans-dermal bites on the hands and few scratches on the face. Discuss the management of this case. (4)
- 3K) A 10 months old child was brought to a private nursing home with macular rashes over the skin. History suggested that the child had nasal catarrh, cough and fever 4 days prior to the appearance of rash. On examination, Koplik's spots noted on the buccal mucosa. Discuss the epidemiological determinants of the disease in brief. (4)
- 3L) Mention the sources of health information in India. Explain any one of them. (1+3 = 4 marks)
- 3M) Explain the syndromic approach to the management of a male patient with urethral discharge. (4)
- 3N) A 20 year old male with history of hypo-pigmented patches was started on treatment for lepromatous leprosy. After six months of completion of treatment he suddenly developed fever with several tender erythematous lesions. Discuss the cause and management of these lesions. (4)
- 3O) A patient comes to an ophthalmologist with conjunctivitis which has progressed to develop a small corneal ulcer. As it was a busy OPD, the ophthalmologist did not hear the patient's explanation as to why there was delay in visiting ophthalmologist, but he became furious and said the patient- "Nothing can be done. You may lose your eyes." He wrote some drops and gave it to the patient and did not explain how to use it, as there were many patients waiting outside.
- Discuss the barriers for an empathetic communication between treating physician and the patient, in this scenario? (4)

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# Question Paper

Exam Date & Time: 09-Dec-2023 (10:00 AM - 01:00 PM)



## MANIPAL ACADEMY OF HIGHER EDUCATION

THIRD PROFESSIONAL YEAR MBBS PART I DEGREE EXAMINATION - DECEMBER 2023

SUBJECT: COMMUNITY MEDICINE - PAPER - II

(CBME BATCH - REGULARS)

Marks: 100

Duration: 180 mins.

Answer all the questions.

Long answers:

- 1) Define Maternal Mortality Ratio (MMR). Enumerate the approaches to measure Maternal mortality. Discuss the determinants of maternal mortality in India. (2+3+5 = 10 marks)
- 2) A 35-year-old female complains of intermenstrual bleeding per vagina since 2 months. She got married at 18 years of age to a truck driver. She was on oral contraceptive pills intermittently. On examination genital hygiene was found to be poor and pap smear showed dysplastic cells.
  - 2A) What is the probable diagnosis? Discuss the risk factors for the same. (1+4 = 5 marks)
  - 2B) Discuss the screening modalities available for the above condition. (2)
  - 2C) Discuss the measures to prevent this in a community setting. (3)

3. Short answers:

- 3A) Enumerate and explain four principles of primary health care in India. (4)
- 3B) Answer the following in relation to routine immunization session site: (1+3 = 4 marks)
  - i) Types of hazardous wastes generated.
  - ii) Describe the segregation, treatment and final disposal methods for any four wastes.
- 3C) Plan an appropriate emergency preparedness measure for a flood prone area. (4)
- 3D) Discuss the basic mental health services required for a community. (4)
- 3E) Enumerate and discuss the effective means of providing health education to a larger community. (4)
- 3F) A manual labour working at rock mining presents with irritant cough, dyspnea on exertion and chest pain. Chest x-ray showed nodular fibrosis and snow storm appearance:
  - i) What is the probable diagnosis?
  - ii) Discuss the epidemiological determinants for the above condition.
  - iii) Enumerate the measures to prevent the same among other laborer working over there. (1+2+1 = 4 marks)
- 3G) Enumerate and explain any four benefits under Employee State Insurance scheme. (4)
- 3H) Explain the concept, "Rule of halves". (4)
- 3I) Discuss the essential components towards goitre control under iodine deficiency disorders control programme. (4)

- 3J) Enumerate the methods used for the appraisal of nutritional status of community. Describe any one method in detail. (4)
- 3K) Prescribe the minimum standards for a slaughter house. (4)
- 3L) Explain the following terms with respect to India's dependency ratio: (2+2 = 4 marks)
- i) Demographic bonus
  - ii) Demographic burden
- 3M) "The number of death of children less than one year in a given year expressed in relation to live births": (1+3 = 4 marks)
- i) What is being defined above?
  - ii) Discuss the determinants for the same
- 3N) Enumerate the common complication during postnatal period and discuss the measures to prevent them. (4)
- 3O) Illustrate the integrated case management process for common childhood problems. (4)

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