

**MANIPAL ACADEMY OF HIGHER EDUCATION**  
**MD (COMMUNITY MEDICINE) DEGREE EXAMINATION – JULY 2023**  
**PAPER I**

Monday, July 03, 2023

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

✍ **Answer ALL the questions.**

✍ **Essay Questions:**

1. What are emerging and re-emerging infections? Discuss the factors responsible for the emergence and re-emergence of infections in the twenty-first century. What are the National and International strategies for early case detection, prevention, and control of emerging infections?

(15 marks)

2. What are the approaches for NCD surveillance? Discuss the role of NCD surveillance in achieving noncommunicable diseases targets for Sustainable Development Goals (SDGs).

(15 marks)

3. **Short Answers:**

3A. Mid-level health workers in providing health care - Discuss their role, advantages and limitations, and the strategies to overcome the limitations.

3B. Candidate vaccine.

3C. Errors in epidemiological studies - Discuss the types and the steps taken to prevent these errors at the time of designing the studies.

3D. Role of nutritional factors in non-communicable diseases.

3E. Introduction of IPV and Switch from tOPV to bOPV in National Immunization Schedule - Discuss the epidemiological basis for the switch and critically analyze its implications in achieving polio eradication.

3F. Critically analyze the challenges encountered in the control of Tuberculosis in Urban India.

3G. Causation in Epidemiology.

3H. Nested case-control study.

3I. Role of Integrated vector management in control of Dengue in an urban locality.

3J. Community Based Rehabilitation - Principles and strategies for its implementation in the context of rehabilitating a leprosy patient with type III disability.

(7 marks × 10 = 70 marks)



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**PAPER II**

Tuesday, July 04, 2023

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

✍ **Answer ALL the questions.**

✍ **Essay Questions:**

1. Discuss the various policies formulated for nutrition actions in India. Describe the operational guidelines for facility-based management of Severe acute malnutrition in India.

(15 marks)

2. What are the '3 Delays' in the context of Maternal Mortality? As an RCH officer of a District with high Maternal Mortality Rate, what strategies will you implement to manage these delays?

(15 marks)

3. **Short Answers**

3A. Female deficit syndrome.

3B. Discuss "Maternal near miss" as an indicator of maternal health and maternal health care.

3C. Describe demographic transition. Discuss the social factors influencing demographic transition.

3D. Ill effects of uncontrolled population on health and economy.

3E. Role of micronutrients in life cycle approach.

3F. WHO growth chart v/s ICDS growth chart.

3G. Health programs for Adolescent girls.

3H. Hidden Hunger.

3I. Discuss the impact of e-waste on environmental health in India.

3J. What measures would you initiate in a District with high fertility?

(7 marks × 10 = 70 marks)



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**PAPER III**

Wednesday, July 05, 2023

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

**✍ Answer ALL the questions.**

**✍ Essay Questions:**

1. Explain the principles of Health education. What are the various approaches to health education? (10+5 = 15 marks)

2. Plan for Hospital Waste management for a rural health centre. (15 marks)

**3. Short Answers:**

3A. What is Acculturation? Discuss its advantages and limitations. (2+5 = 7 marks)

3B. Describe the functions of World Health Organization. (7 marks)

3C. Explain the steps to conduct a training programme for ASHA workers to improve institutional deliveries. (7 marks)

3D. What are the criteria for scientific authorship? Briefly explain the various types of unethical authorship. (2+5 = 7 marks)

3E. Briefly explain the role of local self-governance in National Health Mission. (7 marks)

3F. Social security measures available for working population in India (7 marks)

3G. Role of Clinical Trials Registry in India (CTRI) in improving transparency and accountability of clinical research. (7 marks)

3H. Briefly explain the provisions of Disaster Management Act 2005 and its role in controlling pandemic. (7 marks)

3I. Modern disease surveillance methods using web-based technology have improved disease surveillance - Discuss. (7 marks)

3J. List the warning signs of poor mental health. Discuss the various methods to manage stress. (3+4 = 7 marks)





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**PAPER IV**

Thursday, July 06, 2023

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

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✍ **Answer ALL the questions.**

✍ **Essay Questions:**

1. Describe the administration of Employees State Insurance Scheme. Elaborate the benefits to employees and employers under the scheme.

(15 marks)

2. As Medical Officer of a Primary Health Centre, how would you plan and organize an effective small group discussion for ASHAs to enhance immunization coverage in the community.

(15 marks)

3. **Write Short notes on:**

3A. Competency based medical education

3B. Digital health initiatives

3C. Universal health coverage

3D. Genetic counselling

3E. The Central Births & Deaths Registration Act

3F. Leprosy vaccine

3G. One Health

3H. Indian Council of Medical Research

3I. Cost effectiveness analysis

3J. Mainstreaming AYUSH into Indian healthcare system

(7 marks × 10 = 70 marks)

