

**MANIPAL ACADEMY OF HIGHER EDUCATION****MD (COMMUNITY MEDICINE) DEGREE EXAMINATION – APRIL 2018****SUBJECT: PAPER I: HISTORY OF PUBLIC HEALTH, CONCEPTS IN COMMUNITY  
MEDICINE AND EPIDEMIOLOGY**

Monday, April 02, 2018

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

✍ **Answer ALL the questions.**

✍ **Essay Questions:**

1. Literature claims that screening for cancer cervix by visual inspection with acetic acid can prolong survival of patients with the disease. What information do you need before deciding whether or not to support this conclusion?

(15 marks)

2. Identify the factors responsible for the rise in incidence of Hypertension in the country. Discuss lifestyle modification strategies that could be implemented to control the problem.

(15 marks)

3. **Short Notes:**

3A. Justify the role of systematic reviews in evidence based healthcare.

3B. Describe the guidelines for judging causality of an epidemiological association.

3C. Explain the concept of sentinel surveillance with a suitable example.

3D. Identify the role of immunization in the prevention of non-communicable diseases.

3E. Discuss the importance of randomization in a controlled clinical trial.

3F. Appraise the current status of leprosy control in the country.

3G. Illustrate the DOTS - plus framework for the management of multidrug - resistant tuberculosis.

3H. Recommended services at a PHC as per the Indian Public Health Standards (IPHS).

3I. Principles of health manpower planning.

3J. Illustrate the concept of inter-sectoral coordination in primary health care.

(7 marks × 10 = 70 marks)



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**MANIPAL ACADEMY OF HIGHER EDUCATION**  
**MD (COMMUNITY MEDICINE) DEGREE EXAMINATION – APRIL 2018**  
**SUBJECT: PAPER II: HEALTH SERVICES MANAGEMENT**

Tuesday, April 03, 2018

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

✍ **Answer ALL the questions.**

✍ **Essay Questions:**

1. As a District Health Officer of Bhadrak District in Orissa, chalk out a disaster management plan to protect the population from cyclones.

(15 marks)

2. Critically review the role of Reproductive and Child Health Programme in reducing maternal and infant mortality rates.

(15 marks)

3. **Short Notes:**

3A. Discuss the role of International agencies in control of infectious diseases.

3B. Critically discuss the MTP Amendment Bill 2014.

3C. Janani Suraksha Yojana.

3D. Discuss the components and sample design of Sample Registration system.

3E. India Newborn Action Plan.

3F. Implication of ageing population and potential for future action in India.

3G. Contribution of Health Committees towards health planning in India.

3H. NITI Aayog

3I. Planning-Programming-Budgeting system.

3J. Male contraceptive pill.

(7 marks × 10 = 70 marks)



**MANIPAL ACADEMY OF HIGHER EDUCATION****MD (COMMUNITY MEDICINE) DEGREE EXAMINATION – APRIL 2018****SUBJECT: PAPER III: NUTRITION, ENVIRONMENTAL HEALTH AND DEMOGRAPHY**

Wednesday, April 04, 2018

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

✍ **Answer ALL the questions.**

✍ **Long Question:**

1. What is food adulteration? Describe the legislations to control the same. (15 marks)
2. Describe the problems associated with solid waste disposal suggesting the possible solutions to these problems. Describe the methods you would suggest for the solid waste disposal of a city of 12 lakh population. (15 marks)

3. **Short notes:**

- 3A. Construction of life table and its uses.
- 3B. Fertility trends in India.
- 3C. Define dependency ratio. What are its implications?
- 3D. Cluster sampling.
- 3E. What is nutritional surveillance? Bring out its importance.
- 3F. Surveillance of drinking water quality.
- 3G. Explain in detail the anti-larval measures of mosquito control.
- 3H. Describe the measures for general health protection of workers engaged in different occupations.
- 3I. Role of molecular genetics in prevention and treatment of genetic diseases.
- 3J. Monitoring of air pollution.

(7 marks × 10 = 70 marks)



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**MANIPAL ACADEMY OF HIGHER EDUCATION**  
**MD (COMMUNITY MEDICINE) DEGREE EXAMINATION – APRIL 2018**  
**SUBJECT: PAPER IV: MENTAL HEALTH AND HEALTH TECHNOLOGY**

Thursday, April 05, 2018

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

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✍ **Answer ALL the questions.**

✍ **Long Questions:**

1. Discuss the various types of social classification. Explain how social class affects health and disease.

(15 marks)

2. Explain how you would test the efficacy of a newer vaccine for prevention of diarrhea among under-five children in the community.

(15 marks)

3. **Short notes:**

3A. Ethical issues in drug trials.

3B. Role of health education in prevention of non-communicable diseases.

3C. Qualitative studies in public health.

3D. Global hunger index.

3E. Recent advances in diagnostic techniques of tuberculosis.

3F. Audio -visual aids in enhancing the quality of teaching.

3G. Inter-sectoral coordination in disease prevention and control.

3H. Registration of vital events is a reliable source of health information. Justify.

3I. Explain how technology based health care delivery can improve the health of a community.

3J. SWOT analysis of National Mental Health Program.

(7 marks × 10 = 70 marks)

