

Question Paper

Exam Date & Time: 29-Feb-2024 (10:20 AM - 01:00 PM)



MANIPAL ACADEMY OF HIGHER EDUCATION
THIRD PROFESSIONAL YEAR MBBS PART I DEGREE EXAMINATION - FEBRUARY / MARCH 2024
SUBJECT: COMMUNITY MEDICINE - PAPER - I
(CBME BATCH - REPEATERS)

Marks: 80

Duration: 160 mins.

All questions are compulsory.

Illustrate your answers with suitable diagrams wherever necessary.

- 1) A study is being designed to determine the effects of radiation among workers in a nuclear plant over the next 5 years.
 - 1A) What would be the ideal study design for the above scenario? (1)
 - 1B) Describe the steps involved in conducting this study. (6)
 - 1C) Discuss the possible disadvantages of this type of study design (3)

- 2) Discuss the epidemiological determinants of Dengue Fever. Discuss the clinical management of Dengue Hemorrhagic Fever. Write a note on "Integrated approach" to control vectors under NVBDCP (3+4+3 = 10)

- 3) **Short questions:**
 - 3A) A patient aged 40 years reports to PHC with complaints of fever and cough with expectoration since 3 weeks. There was h/o weight loss and night sweats. What is the probable diagnosis and diagnostic algorithm to proceed with the case? (1+3 = 4)
 - 3B) A pregnant woman with 24 weeks of gestation was diagnosed with tuberculosis. On testing for drug sensitivity, she was found to be resistant for rifampicin and isoniazid. Discuss the line of management in this case (4)
 - 3C) A male patient, a truck driver by occupation comes to Primary Health Centre with complaints of urethral discharge. Discuss the syndromic management for this case (4)
 - 3D) List the components of Diarrheal Disease Control Programme. Describe the preventive strategies. (2+2 = 4)
 - 3E) Explain primary level of prevention with a suitable example. (4)
 - 3F) Discuss Physical Quality of Life Index (4)
 - 3G) Describe Iceberg Phenomenon of Disease with a suitable example. (2+2 = 4)
 - 3H) Enlist different levels of health care. Compare and contrast services provided under these levels. (1+3 = 4 marks)
 - 3I) Differentiate between Screening and Diagnostic tests (4)
 - 3J) Describe the measures for Prevention and Control of Air Pollution (4)
 - 3K) A village near Karkala reported 40 cases of diarrhea in the last 72 hours. As a medical officer, what measures would you advise for purification of drinking water at the household level? (4)

- 3L) Discuss the criteria for inclusion of medicine in national list of essential medicine (4)
- 3M) Discuss the epidemiological determinants of Tuberculosis (4)
- 3N) Explain the different measures of central tendency. (4)
- 3O) A 60-year-old male patient is diagnosed with stage 3 malignancy. On getting admitted to the hospital, doctor decides to start him on chemotherapy without informing the patients or his caregivers. Caregivers of the patient enquired with the health authorities about the plan of management but their concerns was not addressed. What rights of the patient has been denied in this scenario. What measures could have been taken to address this issue? (4)

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Question Paper

Exam Date & Time: 02-Mar-2024 (10:20 AM - 01:00 PM)



MANIPAL ACADEMY OF HIGHER EDUCATION
THIRD PROFESSIONAL YEAR MBBS PART I DEGREE EXAMINATION - FEBRUARY / MARCH 2024
SUBJECT: COMMUNITY MEDICINE - PAPER - II
(CBME BATCH - REPEATERS)

Marks: 80

Duration: 160 mins.

All questions are compulsory.

Illustrate your answers with suitable diagrams wherever necessary.

Long questions:

- 1) A 2-year-old female child presents with a history of fever, oedema, and depigmentation of skin and hair and comes to a regional Child Care Centre. There is history of not gaining weight since 3 months. On examination, the child weighs 8 kgs and has enlarged liver.
 - 1A) What could be the probable diagnosis in the above condition and explain in detail the preventive measure. (1+6 = 7)
 - 1B) List the various nutritional problems in Public Health (3)

- 2) What is maternal mortality Ratio? What are the various approaches for measuring maternal mortality? Discuss the preventive and social measures to bring down maternal mortality. (2+4+4 = 10)

- 3) **Short questions:**
 - 3A) List the causes and preventive measures for Juvenile Delinquency (2+2 = 4)
 - 3B) Explain the Rule of halves in Hypertension (4)
 - 3C) Enumerate different Cancer Registries. Compare the utility aspects of different Cancer Registries. (1+3 = 4)
 - 3D) Apply the Principles of Health education in educating people regarding prevention and control of COVID 19 (4)
 - 3E) Describe the steps to facilitate the "Baby Friendly Hospital Initiative" (4)
 - 3F) Compare and contrast Growth monitoring and Nutritional surveillance (4)
 - 3G) Explain the principles of Primary Health Care with suitable examples (4)
 - 3H) Applying the principles of Biomedical Waste Management segregate and categorise waste generated during the immunization process. (4)
 - 3I) 50-year-old Gopal employed in ceramic industry comes with a history of cough and breathlessness. On investigation, there was a "snow storm appearance" in the chest X-Ray. What is the probable diagnosis & explain in detail the medical measures for prevention of the current condition (4)
 - 3J) Describe the functions of World Health Organization (4)

- 3K) 45 year old Raju came to Primary Health Centre with complaints of increased thirst and increased frequency of micturition. His fasting blood sugar was 170 mg/dl and HbA1c was 8%. What level of prevention has failed and describe in detail the modes of intervention (1+3 = 4)
- 3L) Enumerate the beneficiaries of the Integrated Child Development Scheme [ICDS] and describe the services provided under ICDS. (2+2 = 4)
- 3M) A 5-month-old male infant presented to the paediatric casualty with restlessness and irritability. The duty doctor noted sunken eyes and skin pinch going back slowly. She drinks water eagerly. Based on the above information, assess the dehydration level of the infant and suggest appropriate management based on the Integrated Management of Neonatal and Childhood Illnesses[IMNCI]. (1+3 = 4)
- 3N) Describe the epidemiological determinants of Rheumatic Heart Disease (4)
- 3O) A 45-year-old male comes to PHC with crossed gait and a tendency to walk on toes. On eliciting history, he revealed consumption of Kesari Dhal on a regular basis. What will be the probable diagnosis & discuss possible interventions for prevention and control of the above condition? (1+3 = 4)

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