

RAN-2406000103020601
Third M.B.B.S. (Part - I) Examination July - 2026
Community Medicine (Paper I)
Preventive and Social Medicine (New CBME Course)
Time: 3 Hours]
[Total Marks: 100
સૂચના : / Instructions

- (1) ઉપરોક્ત દર્શાવેલ વિગતો ઉત્તરવહી પર અવશ્ય લખવી.
 Fill up strictly the above details on your answer book

Seat No.:

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Student's Signature

Section - I
Q. 1. Multiple Choice Questions (MCQ) (Each Carry 1 Marks)
20 Marks

- Circle the Correct Answer
- No Negative Marking
- Multiple Selection/Cancelling selected answers will not be counted for marking.

1. Incidence of a disease measures:

- | | |
|--------------------|-----------------------------|
| (A) Existing cases | (B) New cases over a period |
| (C) Total deaths | (D) Prevalence rate |

2. Specificity of a test refers to its ability to correctly identify:

- | | |
|----------------------|---------------------|
| (A) Diseased persons | (B) Carriers |
| (C) High-risk group | (D) Healthy persons |

3. Indoor air pollution is mainly caused by:

- | | |
|-----------------------------|----------------------|
| (A) Vehicular emissions | (B) Industrial smoke |
| (C) Biomass fuel combustion | (D) Pesticides |

4. Median is best used when data is:

- | | |
|--------------------------|------------|
| (A) Normally distributed | (B) Skewed |
| (C) Nominal | (D) Binary |

5. National Health Policy 2017 set life expectancy target of:

- | | |
|--------------|--------------|
| (A) 65 years | (B) 70 years |
| (C) 75 years | (D) 80 years |

6. As per NFHS-6, following key indicator of national level is measured:

- | | |
|---------------------------|-----------------------------|
| (A) Infant Mortality Rate | (B) Maternal Mortality Rate |
| (C) Both A and B | (D) Total Fertility Rate |

7. Reproductive and Child Health Programme Phase 1 was launched in:

- | | |
|----------|----------|
| (A) 1992 | (B) 1997 |
| (C) 2005 | (D) 2013 |

8. Black bag in biomedical waste is used for:

- | | |
|----------------------|---------------------------------|
| (A) Sharps | (B) General/non-hazardous waste |
| (C) Anatomical waste | (D) Chemical waste |

9. The phase of building resilience before disaster occurs is:
 - (A) Response
 - (B) Recovery
 - (C) Mitigation
 - (D) Relief
10. Tuberculosis control programme in India is currently called:
 - (A) RNTCP
 - (B) NTEP
 - (C) DOTS
 - (D) NACO
11. The Mid-year population is used to calculate:
 - (A) Crude Birth Rate
 - (B) Case Fatality Rate
 - (C) Crude Death Rate
 - (D) Both A and C
12. FHW is primarily posted at:
 - (A) PHC
 - (B) Sub-centre
 - (C) CHC
 - (D) District Hospital
13. Correlation coefficient value lies between:
 - (A) 0 to 100
 - (B) 0 to 1
 - (C) -1 to +1
 - (D) -100 to +100
14. National Family Health Survey is conducted by:
 - (A) ICMR
 - (B) IIPS
 - (C) WHO
 - (D) NITI Aayog
15. Which of the following is used to denote a continuous variable?
 - (A) Histogram
 - (B) Bar Diagram
 - (C) Component Bar Diagram
 - (D) Pie Diagram
16. The "Iceberg phenomenon" in epidemiology represents:
 - (A) Vaccine Vial Monitor
 - (B) Vaccination coverage
 - (C) Mortality data
 - (D) Subclinical and undetected cases
17. Disaster management act in India was enacted in:
 - (A) 2002
 - (B) 2005
 - (D) 2010
 - (D) 2015
18. Pulse Polio Programme uses which strategy:
 - (A) Routine immunization only
 - (B) Supplementary immunization activity
 - (C) Passive immunization
 - (D) Herd immunity only
19. Hypothesis is generated from the following type of study:
 - (A) Case-Control Study
 - (B) Cohort Study
 - (C) Descriptive Study
 - (D) Randomized Controlled Trial
20. "Permanent hardness" of water is due to all of the following, except:
 - (A) Calcium and Magnesium Sulphates
 - (B) Chlorides
 - (C) Calcium and Magnesium Carbonates
 - (D) Nitrates

Section - II

- Q. 2. Write the full Question on following: (any 1 out of 2) 10 Marks**
- (A) Define Epidemiology. Discuss in details about conducting a Cohort Study by taking suitable relevant example.
 - (B) Write the sources of Radiation Exposure, types and biological effects of radiation.

Q. 3. Write one or two line short questions (2 marks each)

20 Marks

- A. Define Prevalence with formula.
- B. Define Positive Predictive Value.
- C. Enlist determinants of health.
- D. What is Super-chlorination?
- E. What is Window Period in case of HIV/AIDS?
- F. Enlist functions of a Medical Officer at PHC.
- G. Define Net Reproduction Rate.
- H. What is meant by "Triage" in disaster management?
- I. Name the measures of dispersion of Data.
- J. Write the 2015 WHO criteria for the diagnosis of RF and RHD

Q. 4. Write Short notes/ Comments on the following: (any 2 out of 3)

10 Marks

- (A) Household purification of Water
- (B) Emergency Contraception
- (C) Noise Pollution

Section -III

Q. 5. Write the full Question on following: (any 1 out of 2)

10 Marks

- A. Colour coding for disposal of biomedical waste is necessary -Justify. Explain in brief the methods of biomedical waste management in a Medical college and Hospital.
- B. Define "safe and wholesome water". Discuss the different tests for the bacteriological surveillance of drinking water.

Q. 6. Write Short notes on the following: (any 5 out of 6)

20 Marks

- A. Pentavalent Vaccine
- B. Chi-square test and its applications
- C. Levels of Prevention
- D. Herd Immunity
- E. Functions of Anganwadi workers
- F. Natural family planning methods

Q. 7. Write Short notes on the following: (any 2 out of 3)

10 Marks

- A. Unmet need for family planning
- B. Post-exposure Prophylaxis in AIDS
- C. Janani Suraksha Yojana

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સૂચના : / Instructions (1) ઉપરોક્ત દશવિધ વિગતો ઉત્તરવહી પર અવશ્ય લખવી. Fill up strictly the above details on your answer book	Seat No.: <table border="1"> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </table> Student's Signature						

Section -1
Q.1. Multiple Choice Questions (MCQ) (Each Carry 1 Marks)
20

1. Circle the Correct Answer
 2. No Negative Marking
 3. Multiple Selection/Cancelling selected answers will not be counted for marking
1. Scurvy is caused by deficiency of:

(A) Vitamin A	(B) Vitamin D
(C) Vitamin B12	(D) Vitamin C
 2. Cereal proteins are deficient in:

(A) Methionine and Lysine	(B) Lysine and Threonine
(C) Threonine and Methionine	(D) Arginine and Lysine
 3. The vector for Lymphatic Filariasis is which mosquito:

(A) Anopheles	(B) Culex
(C) Aedes	(D) Sandfly
 4. Silicosis is caused by exposure to:

(A) Cotton dust	(B) Coal dust
(C) Asbestos	(D) Silica dust
 5. Cystic fibrosis is inherited in which pattern:

(A) Autosomal recessive	(B) Autosomal dominant
(C) X-linked recessive	(D) Y-linked
 6. Pradhan Mantri Matru Vandana Yojana provides cash benefit to:

(A) Elderly	(B) Pregnant and lactating women
(C) Adolescent girls	(D) Newborns only
 7. National Mental Health Programme was launched in:

(A) 1982	(B) 1992
(C) 2002	(D) 1975
 8. WHO headquarters is located in:

(A) New York	(B) Paris
(C) Geneva	(D) London

9. A subcentre in a hilly area caters to a population of:
 (A) 1000 (B) 2000
 (C) 3000 (D) 5000
10. Iodine deficiency disorder leading to mental retardation in infants is:
 (A) Goiter (B) Cretinism
 (C) Myxedema (D) Hyperthyroidism
11. Asbestosis is an occupational disease of which organ:
 (A) Skin (B) Lungs
 (C) Kidney (D) Liver
12. Under POSHAN Abhiyaan, the primary target is to reduce:
 (A) Maternal mortality (B) Stunting, wasting, and anemia
 (C) Infectious diseases (D) Mental illness
13. Kala-azar is transmitted by:
 (A) Female Anopheles (B) Tsetse fly
 (C) Culex mosquito (D) Sandfly
14. Phosphatase test in Milk is done to know:
 (A) Efficiency of Pasteurization (B) Contamination of Milk
 (C) Nutritive Value (D) Coliform count
15. Most common cause of low birth weight baby is:
 (A) Diabetes (B) Infection
 (C) Prematurity (D) Anemia
16. Health education uses which of the following as a key principle:
 (A) One-way communication (B) Felt needs of the community
 (C) Imposition of ideas (D) Avoiding community participation
17. Haemophilia is inherited as:
 (A) Autosomal dominant (B) X-linked recessive
 (C) Autosomal recessive (D) Mitochondrial
18. Social factors affecting health include:
 (A) Only biological factors (B) Genetics only
 (C) Climate only (D) Culture, economic status, education
19. Who looks after the work of Anganwadi Worker:
 (A) Auxiliary Nurse Midwife (B) ASHA
 (C) Village Health Guide (D) Mukhyasevika
20. World Health Day is observed every year on:
 (A) March 24 (B) April 7
 (C) July 1 (D) December 1

Section - II

Q.2.

Write the full Question on following: (any 1 out of 2)

- (A) Discuss the epidemiology of Hepatitis-B and its prevention and control measures.
- (B) Enumerate the Food-borne diseases. Write in detail about Epidemic dropsy.

10

- Q.3. Write one or two line short questions (2 marks each) 20**
- A. What are the proximate principles?
 - B. What is meant by "Culture" in relation to health?
 - C. Define Infant Mortality Rate.
 - D. Write the preventive measures of Bagassosis.
 - E. Name any four diseases of autosomal recessive trait.
 - F. Write the functions of W.H.O.(World Health Organization)?
 - G. Name any four diseases in which Multidrug therapy is being given.
 - H. Name the National Program that addresses health related problems of elderly people.
 - I. Write any four functions of Vitamin A.
 - J. Name the FOUR well-known approaches to health education

- Q.4. Write Short notes/ Comments on the following: (any 2 out of 3) 10**
- (A) Sickness Absenteeism
 - (B) Principles of Primary Health Care
 - (C) Eugenics

Section - III

- Q.5. Write the full Question on following: (any 1 out of 2) 10**
- A. List the indicators of MCH care. Define Perinatal Mortality Rate. What are the causes of Perinatal Mortality?
 - B. Define Health Communication. Write its type and barriers of communication
- Q.6. Write Short notes on the following: (any 5 out of 6) 20**
- A. Juvenile delinquency
 - B. Emergency Obstetric Care
 - C. Asbestosis
 - D. Congenital Rubella Syndrome
 - E. Learning and its types
 - F. Engineering measures for prevention of occupational diseases
- Q.7. Write Short notes on the following: (any 2 out of 3) 10**
- A. Health problems of Adolescents in India
 - B. Iron Deficiency Anemia
 - C. UNICEF
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