

**2406000103020601**  
**EXAMINATION DECEMBER 2024**  
**BACHELOR OF MEDICINE AND BACHELOR OF SURGERY**  
**(THIRD PART-1)**  
**COMMUNITY MEDICINE ( PAPER - I ) ( NEW ) ( EFFECTIVE**  
**FROM 2023-24 ) - LEVEL 2 ( OMR )**

[Time: As Per Schedule]

[Max. Marks:100]

**Instructions:**

1. Fill up strictly the following details on your answer book
  - a. Name of the Examination : **BACHELOR OF MEDICINE AND BACHELOR OF SURGERY (THIRD PART-1)**
  - b. Name of the Subject : **COMMUNITY MEDICINE ( PAPER - I ) ( NEW ) ( EFFECTIVE FROM 2023-24 ) - LEVEL 2 ( OMR )**
  - c. Subject Code No: **2406000103020601**
2. Sketch neat and labelled diagram wherever necessary.
3. Figures to the right indicate full marks of the question.
4. All questions are compulsory.

Seat No:

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Student's Signature

**Section -I**

**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. At which TDS level, palatability of water is considered to be good?  
(A) < 100 mg/liter                      (B) <200 mg/liter  
(C) <500 mg/liter                      (D) <600 mg/liter
2. In an outbreak of cholera in a village of 2,000 populations, 20 cases have occurred and 5 die Case fatality rate is:  
(A) 1%                                      (B) 10%  
(C) 25%                                      (D) 40%
3. Public Policies in Gujarat aim at avoiding the underlying reasons for the development of environmental and atmospheric concentration of SO<sub>2</sub> to protect the health of people It is an example of

- (A) Primordial  
(C) Secondary
- (B) Primary  
(D) Tertiary

4. A researcher was studying maternal mortality in Rawalpindi District. He observed more deaths in women who were brought to hospital and without taking other factors into account concluded that hospital managed cases have more mortality as compared to home deliveries. This is an example of:
- (A) Temporal association  
(C) Direct association
- (B) Spurious association  
(D) Causal association
5. Which state can be considered as yardstick for judging health status in country?
- (A) Gujarat  
(C) Delhi
- (B) Bihar  
(D) Kerala
6. In the post-disaster phase the most important point in order of preference is:
- (A) Vaccination against infectious diseases  
(B) Provision of safe water, food & clothing  
(C) Disposal of dead bodies  
(D) Disposal of solid wastes
7. Acceptable noise level (dBA) in hospital wards:
- (A) 20-35  
(C) 10-25
- (B) 30-45  
(D) 40-55
8. A woman travelled a long way from a remote village & came to a population welfare centre/family planning centre. She had enough money but was very tired on account of traveling. When she went inside, she found a male doctor dealing with the clients. She decided to go back. The most likely reason for this decision is lack of:
- (A) Acceptability  
(C) Accessibility
- (B) Affordability  
(D) Efficacy
9. People of a village reported a high prevalence of bacterial gastroenteritis even after proper chlorination of water supply for the recommended duration. On water analysis, level of chlorine in water was 0.01 mg/L and pH of water was 6.5. The likely reason of increased bacterial gastroenteritis even after chlorination is:

- (A) Low residual chlorine
- (B) High pH leading to chlorination failure
- (C) Presence of sulphides
- (D) Inadequate contact time

10. Demographic Processes' does not include:

- (A) Fertility
- (B) Morbidity
- (C) Mortality
- (D) Social mobility

11. The spindle-shaped Age pyramid denotes?

- (A) Developing country
- (B) Developed country
- (C) Underdeveloped country
- (D) Middle east country

12. Indoor air pollution does not cause:

- (A) Chronic lung disease
- (B) Adverse Pregnancy outcomes
- (C) Childhood pneumonia
- (D) Neuro-developmental problems

13. A survey on air pollution was conducted in an urban area to determine the major contaminant in air. The major contaminant estimated in all air pollution is:

- (A) Grit and dust
- (B) Sulphur dioxide
- (C) Carbon monoxide
- (D) Nitrogen dioxide

14. A woman came with antepartal bleeding. She was to be transfused with blood her blood was sent for blood grouping and HBV screening. She was found to be HB positive This screening is;

- (A) Targeted
- (B) Research
- (C) Mass
- (D) Opportunistic

15. True about composition of Indian hospital waste products:

- (A) Metal 5%
- (B) Paper 25%
- (C) Glass 55%
- (D) Infectious waste 1.5 %

16. A village has total of 100 under-five children. The coverage with measles vaccine in this age group is 60%. Following the occurrence of a measles case in a child after a visit outside, twenty-six children developed measles. The secondary attack rate of measles is:

- (A) 25% (B) 26%  
(C) 66% (D) 5%

17. When the number of educated females is expressed as a percentage of total females present in a village. It is known as:

- (A) Proportion (B) Rate  
(C) Ratio (D) Frequency

18. Which of the following is used to denote a continuous variable?

- (A) Simple bar (B) Histogram  
(C) Pie diagram (D) Multiple bar

19. Study was undertaken to assess the effect of a drug in lowering serum cholesterol levels. 15 obese women and 10 non-obese women formed the 2 limbs of the study. Which test would be useful to correlate the results obtained?

- (A) ANOVA test (B) Student's t-test  
(C) Chi square test (D) Fischer test

20. In the WHO recommended EPI Cluster sampling for assessing primary immunization coverage, the age group of children to be surveyed is

- (A) 0-12 months (B) 6-12 months  
(C) 9-12 months (D) 12-23 months

#### Section-II

**Q.2 Write the full Question on following (any 1 out of 2) 10**

- A. Explain web of causation with myocardial infarction as example.  
B. Describe health aspects of family planning.

**Q.3 Write one or two line short questions (2 marks each) 20**

- (A) Define public health.  
(B) Differentiate disease elimination and eradication.  
(C) Justify "epidemiology is diagnostic tool of community diagnosis".  
(D) Enlist four health care delivery indicators.  
(E) Define net reproduction rate and write its importance.  
(F) What is effective literacy rate?  
(G) Enlist four criteria for adopting terminal method of family planning.  
(H) Enlist four national health programmes run at sub center level.  
(I) Mention five categories of adverse event following immunization.

(J) Write two important characteristics of cross sectional study.

**Q.4 Write Short notes/ Comments on the following: (any 2 out of 3) 10**

- (A) Prepare checklist before prescription of oral contraceptive pills.
- (B) Enlist five steps to prevent disease outbreak after disaster as medical officer.
- (C) Briefly describe five health hazards of biomedical waste.

**Section-III**

**Q.5 Write the full Question on following: (any 1 out of 2) 10**

- (A) Explain the importance of incubation period for epidemiologist.
- (B) Classify epidemics and explain in brief "continuous exposure epidemic" with relevant diagram. (4 +6)

**Q.6 Write Short notes on the following: (any 5 out of 6) 20**

- A. Classify the water related diseases.
- B. Differentiate qualitative and quantitative data.
- C. Mention four differences between cohort and case control.
- D. Write four control measures of scabies
- E. Mention the period of isolation for chicken pox, measles, mumps and Diphtheria.
- F. Write down four key health advice to travellers.

**Q.7 Write Short notes on the following: (any 2 out of 3) 10**

- A. Write five preventive measures to reduce effects of heat stress.
- B. Explain the concept of "Lead time" for screening.
- C. Enlist five main duties of MPH (male) at primary health center.

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**2406000103020602**  
**EXAMINATION DECEMBER 2024**  
**BACHELOR OF MEDICINE AND BACHELOR OF**  
**SURGERY (THIRD PART-1)**  
**COMMUNITY MEDICINE ( PAPER - II ) ( NEW )**  
**( EFFECTIVE FROM 2023-24 ) - LEVEL 2 (OMR)**

[Time: As Per Schedule]

[Max. Marks: 100]

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Student's Signature

**SECTION-I**

**Q.1 Multiple choice questions each carry 1 mark**

**20**

1. Most serious complication of measles is
  - a) Koplik spots
  - b) Parotitis
  - c) Meningoencephalitis
  - d) Nephritis
2. Man is dead end for
  - a) Chickenpox
  - b) Yellow fever
  - c) Measles
  - d) Rabies
3. Pentavalent vaccine does not protect against
  - a) Diphtheria
  - b) Whooping cough
  - c) Haemophilus Influenza type B
  - d) H1N1 Influenza
4. Tracking of blood pressure implies
  - a) Blood pressure increase with age
  - b) Blood pressure decrease with age

- c) Blood pressure of hypotensive become hypertensive  
d) Blood pressure of hypotensive remains hypotensive
5. The most common cause of blindness in India is  
a) Cataract  
b) Vitamin A deficiency  
c) Glaucoma  
d) Trachoma
6. Which index of obesity does not require height in calculation  
a) Quetelet's index  
b) Corpulence index  
c) Ponderal index  
d) Brocca index
7. Which among the following is cardio-protective fatty acid?  
a) Palmitic acid  
b) Stearic acid  
c) Omega-3 fatty acid  
d) Oleic acid
8. Which of the following is promoter of iron absorption?  
a) Ascorbic acid  
b) Tannin  
c) Phytates  
d) Calcium
9. Shakir's tape is used to measure  
a) Head circumference  
b) Mid arm circumference  
c) Chest circumference  
d) Length of an infant
10. Janani Suraksha Yojana (JSY) aims at reducing maternal mortality rate by  
a) Providing health education  
b) Supplementary nutrition  
c) Promoting institutional delivery  
d) All of the above
11. Under IMNCI, an eighteen months old child has general danger sign present if s/he has  
a) Chest indrawing  
b) Neck stiffness  
c) High grade fever  
d) Vomits out everything
12. Sickness absenteeism is a useful index to assess  
a) State of health of workers  
b) Worker-management relationship  
c) Working environment  
d) Sincerity of workers
13. Per capita income per month of a family is calculated in  
a) Kuppuswamy scale  
b) BJ Prasad scale  
c) Pareek socio economic scale  
d) All of the above

14. Haemophilia is which type of genetic disorder?  
a) Autosomal recessive                      b) Autosomal dominant  
c) X-linked recessive                        d) X-linked dominant
15. According to Cigarettes and Other Tobacco Products Act (COTPA) tobacco products cannot be sold within how many meters of an educational institution?  
a) 50 meters                                      b) 100 meters  
c) 200 meters                                    d) 500 meters
16. Which was the first health committee formed in India post-independence?  
a) Bhore Committee                            b) Mudaliar Committee  
c) Kartar Singh Committee                    d) Jungalwalla Committee
17. The method which is generally more effective in changing human behaviour is  
a) Lecture                                        b) Focus group discussion  
c) Role play                                      d) Counselling
18. Mission "Indradhanush" focuses on  
a) Basic obstetric care                        b) Water supply and sanitation  
c) Nutrition supplementation                d) Immunization
19. When is World Health Day observed each year?  
a) 7<sup>th</sup> February                                  b) 7<sup>th</sup> March  
c) 7<sup>th</sup> April                                        d) 7<sup>th</sup> May
20. For tribal, hilly and difficult to access areas, one PHC should be available for every:  
a) 20,000 population                            b) 30,000 population  
c) 50,000 population                            d) 80,000 population

#### SECTION-II

#### Q.2 LAQ (any 1 out of 2)

10

- a) Enumerate four arboviral diseases. Write epidemiology of chikungunya fever in detail. Describe the public health measures for prevention and control of chikungunya fever (1+4+5)
- b) India is referred to as "Diabetes capita of the world". Give your comments the statement. Describe epidemiology of Diabetes Mellitus. Write preventive measures for Type 2 Diabetes Mellitus (2+4+4)



**Q.3 One or Two line short questions (2 marks each)**

20

- a) Write route of administration and schedule for fractional dose of Inactivated Polio Vaccine
- b) Write modifiable risk factors of coronary heart disease
- c) Write treatment of falciparum malaria in pregnant woman
- d) Difference in rashes of measles and chicken pox
- e) Enumerate three most common cancers among male and female in Gujarat
- f) What is window period in HIV and write its significance.
- g) What is rule of halves in hypertension?
- h) Write definition of blindness given by World Health Organization
- i) Write preventive measures for cervical cancer
- j) Write mode of transmission of leptospirosis

**Q.4 Write short answers for the following (any 2 out of 3) (5 marks each)**

10

- a) Describe diagnostic algorithm for pulmonary tuberculosis according to National Tuberculosis Elimination Programme
- b) Cancer registries
- c) Epidemiology of Monkey pox virus infection

**SECTION-III**

**Q.5 LAQ (any 1 out of 2)**

10

- a) Define primary health care. Describe the principles of primary health care with examples (2+8)
- b) Define neonatal mortality rate. Describe causes of neonatal deaths in India. Write various measures and strategies of government for prevention of neonatal mortality (1+4+5)

**Q.6 Write short answers for the following (any 5 out of 6) (4 marks each)**

20

- a) High risk conditions in antenatal women
- b) Health problems of the aged in India
- c) Food fortification
- d) Low birth weight and its implications
- e) Iodine deficiency disorders
- f) Dietary recommendations for pregnant woman

Q.7 Write short answers for the following (any 2 out of 3) (5 marks each)

10

- a) Anemia Mukd Bharat
- b) Engineering measures for prevention of occupational diseases
- c) Management of Severe Acute Malnutrition

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