

Q.P. Code: 303001

Reg. no.: .....

**Third Professional MBBS (Part I) Degree Supplementary Examinations  
August 2022****Community Medicine - Paper I**

Time: 3 Hours

Total Marks: 60

- Answer all questions to the point neatly and legibly • Do not leave any blank pages between answers • Indicate the question number correctly for the answer in the margin space
- Answer all parts of a single question together • Leave sufficient space between answers
- Draw diagrams wherever necessary

**Essay: (10)**

1. The District health officer is concerned that there may be an increase in new-onset diabetes among young individuals aged 20-45 years after COVID-19 infection. It was decided to conduct an epidemiological investigation to study the risk of getting diabetes after Covid 19 infection.
  - a) What would be an appropriate study design to test this hypothesis. Justify with reasons.
  - b) Enumerate and explain the steps of the study with outcome measures of association in the study for drawing inference.
  - c) Enlist any two advantages and disadvantages of this study design. (2+5+3)

**Problems: (2x5=10)**

2. A well water of an urban slum under your primary health centre is said to be contaminated with sewage water since past two days. As the medical officer how will you ensure disinfection of the well so as to ensure the residents of the area get safe potable drinking water. What action would you suggest to prevent the well against further contamination (3+2)
3. An outbreak of vomiting and diarrhoea was reported in pilgrims returning from pilgrimage at a quarantine sea port. A total of 100 patients were admitted within a span of 3 hours. Enumerate the outbreak investigation plan, its implementation and also write briefly on prevention and control measures for this outbreak.

**Short answer Question: (5x4=20)**

4. Describe the activities and services provided under Rashtriya Bal Swasthya Karyakram (RBSK).
5. The nutritional problems of public health importance in India.
6. Maternal Mortality Rate (MMR)
7. Genetic counselling
8. Social security schemes for the elderly

**Differentiate between: (3x2=6)**

9. Lead time and screening time
10. Demographic gap and demographic transition.
11. Disease elimination and disease eradication

**Substantiate your answer with reasons: (2x2=4)**

12. Special immunization campaigns like Mission Indradhanush are needed for achieving full immunization coverage among infants.
13. Couples should be counselled to facilitate them to decide the ideal contraceptive of their choice.

**List the following: (5x2=10)**

14. High risk antenatal mothers under "Risk approach for Maternal and child health"
15. Types of family.
16. Uses of screening.
17. Nutritional assessment methods.
18. Mosquito control measures.

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