

**Third Professional MBBS (Part I) Degree Supplementary Examinations  
July 2019**

**Community Medicine - Paper I**

Time: 3 Hours

Total Marks: 60

- Answer all questions
- Draw diagrams wherever necessary

**Essay:****(10)**

1. A drug company has produced a new formulation of zinc in the form of a sweetened beverage which they claim has the ability to reduce the duration and severity of diarrhea in children below five years of age. 25 ml of the beverage has to be given to children below the age of one and 50 ml for those one to five years of age, in a once-daily dosage. They request you to assist with preparing an outline for a study which they wish to do to demonstrate the efficacy of the beverage. Answer the following:

- What is an appropriate study design for this study and why
- List and briefly describe the steps of the study design chosen by you.
- List and briefly describe TWO ethical considerations which might need to be addressed in performing this study. (2+6+2)

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

2. The incidence of all mosquito borne diseases are increasing in your PHC area, as the medical officer of the PHC how will you apply the levels of prevention to reduce the incidence and control the situation.
3. In a small remote village in a predominantly agrarian community, a large proportion of the children under five years of age are found to be malnourished. You are asked to address a group consisting of parents of the children regarding measures to improve their nutritional status. List and describe the measures which you would suggest.

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

4. Contribution of John Snow to public health in the 1850s
5. Problems of nuclear families
6. Effects of heat stress on humans
7. Precautions in collecting a sample of water for bacteriologic examination
8. Principles of designing a mid-day meal for school children

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

9. Bagassosis and byssinosis
10. Isolation and quarantine
11. Sandflies and mosquitos

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

12. Pulse polio immunization is done using OPV in the months January-March every year
13. "Green belts" are established between industrial and residential areas

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

14. First four stages of demographic cycle
15. Enumerate four measures of dispersion
16. The classification of insecticides used in public health
17. The kinds of biomedical waste disposed in BLUE/WHITE TRANSLUCENT containers
18. FOUR measures of fertility