

**M.D. DEGREE EXAMINATION**  
**BRANCH XV – COMMUNITY MEDICINE**  
**PAPER I – TROPICAL MEDICINE AND PUBLIC HEALTH**  
**BASIC SCIENCES IN COMMUNITY MEDICINE**

*Q.P. Code: 202051*

**Time : Three Hours**

**Maximum : 100 Marks**

**I. Essay:**

**(2 x 15 = 30)**

1. Discuss the pre-planning and planning for a study to identify association between 'time spent at information technology gadgets' and 'stress levels'.
2. Discuss the liaising officers you would coordinate for inter sectoral coordination in a town which has insanitary conditions with water stagnation, street food vendors contributing to ill health?

**II. Short notes:**

**(10 x 5 = 50)**

1. Discuss the different concepts and definitions of health and its implication in providing healthcare.
2. Levels of prevention that can be applied for control of 'Alcoholism'.
3. What is Family of International Classification FIC? Discuss special features of the International Classification of Function.
4. Factors affecting bioavailability of iron in food.
5. Plan a one-day diet for a lactating mother as per the ICMR guidelines based on food portions.
6. Discuss natural history of hypertension giving the probability of various outcomes.
7. Measures for control of zoonotic disease transmission.
8. Steps to be followed in early detection of an epidemic of influenza and its control.
9. Discuss the methods of 'triangulation' and its role in research.
10. Discuss various analytical methods you can apply to data collected from a cross sectional study to make inference.

**III. Reasoning Out:**

**(4 x 5 = 20)**

1. What is an epidemic curve? Discuss its various uses.
2. Enlist the parameters required for estimating sample size and justify their role in the quality of research.
3. Compare and contrast 'Risk' presented as 'Incidence' in terms of person-years and 'Hazard rate' through survival analysis.
4. Compare and contrast 'disinfection' and 'disinsection' in control of disease transmission.

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