

PAPER CODE: MPH5113

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MPH FIRST YEAR DEGREE EXAMINATIONS: JANUARY, 2023

EPIDEMIOLOGY

Time: 3 Hours

Max Marks: 70

Note: Answer all questions

Give Diagrammatic representation wherever necessary.

Write an essay on the following:

2 X 10 = 20

1. There was a food poisoning outbreak in a girl's hostel which has 48 students. Initially, 4 students reported of vomiting and loose stools on Day1, followed by 20 students on Day 2. As a Public Health Specialist enumerate the steps of Outbreak Investigation to be conducted systematically.
2. What are association, causation and causal association? What are Hill's criteria of causality? Enumerate with example. (3+4+3)

Write short note on the following:

6 X 5 = 30

3. When case-control study was conducted and analysed, a false association between coffee drinking and Lung Cancer was found due to a third factor, Smoking. What do you understand by this?
4. What is Surveillance? Explain the types of surveillance with examples.
5. Classify the study designs. Add a short note on Ecological studies.
6. Types of Standardisation with examples.
7. Bias in Cohort study.
8. Uses and applications of Epidemiology.

Write briefly on the following:

10 X 2 = 20

9. Positive predictive value.
10. Infant Mortality rate.
11. Longitudinal Study.
12. Incidence with an example.
13. Diagrammatic representation of Case-Control Study.
14. Effect modifier.
15. Risk Ratio with an example.
16. Hierarchy of Evidence.
17. Cluster sampling.
18. Case Fatality Rate (Ratio).
