M.Sc. DEGREE EXAMINATION,NOVEMBER 2018
II Year III Semester
Core Major -X
EPIDEMIOLOGICAL METHODS

Time : 3 Hours **Max.marks :75**

Section A $(10 \times 2 = 20)$ Marks

Answer any **TEN** questions

1. Define Mortality and Morbidity.
2. What are Prevalence and incidence rates?
3. What is meant by causation in epidemiology?
4. Give any two factors in causation.
5. What are the communicable and non-communicable diseases?
6. What is environmental epidemiology?
7. List any two applications of epidemiology in health services.
8. What are random control trials?
9. Define random error and systematic error.
10. Define population and sample.
11. How do you determine the sample size for a project?
12. Define case fatality.

Section B $(5 \times 5 = 25)$ Marks

Answer any **FIVE** questions

13. Describe incidence rate and prevalence rate.
14. Discuss briefly about single and multiple causes in epidemiology.
15. Explain Hill's Bradford model in causation.
16. Differentiate between observational and experimental studies in epidemiology.
17. Discuss briefly about field trials and community trials in epidemiological studies.
18. What are the steps involved in choosing an epidemiological project?
19. Explain the rules for preparing a questionnaire.

Section C $(3 \times 10 = 30)$ Marks

Answer any **THREE** questions

20. Explain in detail about the scope and achievement of epidemiological studies.

21. Explain various levels of prevention in epidemiology.

22. Explain investigation and screening of an epidemic.

23. Explain Ecological, Cross sectional and Cohort studies in epidemiology.

24. Explain classification, tabulation, analysis and presentation of epidemiological data.

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