M Phil in Clinical Epidemiology (Part Time) Part II
Regular/Supplementary Examinations November 2024

Paper III – Advanced Clinical Epidemiology, Biostatistics and Biocomputing

Time: 3 hrs   **Max marks:100**

- *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 table/diagrams/flow charts wherever necessary*

Essays: **(10x10=100)**

1. Describe the steps involved in performing a Cochrane Review for COVID-19 infection prevention.

2. How do you assess the diagnostic indices for a new test developed for the diagnosis of COVID-19 infection.

3. What are the components for designing a research project using the PICO principle.

4. What do you understand by the acronym FINER for answering a research question.

5. You have collected data on the Body Mass Index of 100 patients along with other demographic characteristics in a cross-sectional study on Breast cancer patients. There were 50 patients with Breast cancer and 50 patients with Benign Breast disease in this study. How will you assess the association between BMI and Breast Cancer.

6. Describe the principles of survival analysis of a data set on 500 patients undergoing Renal Transplant.

7. Mention the principles of screening for chronic lifestyle-related diseases.

8. Describe the method of assessing reliability in observational studies.

9. Describe the economic evaluation of health intervention using the criteria DALY, QUALY, and cost-effectiveness.

10. How will you assess the causal association in infectious disease epidemiology.

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