MPH Part I Degree Regular/Supplementary Examinations July 2023

Paper II – Introduction to Epidemiology, Basic Biostatistics, Quantitative and Qualitative Research Methods

Time: 3 Hours   **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*
- *Write Section A and Section B in separate answer books. Do not mix up questions from section A and section B*

QP Code: 103314   **Max Marks: 50**

Section A – Introduction to Epidemiology & Basic Biostatistics

Short Essays: **(2x10=20)**

1. Describe steps involved in a case-control study. What are the major advantages and disadvantages of a case-control study
2. Methods of graphical presentation of data in health sciences

Short Notes: **(6x5=30)**

3. Describe odds ratio and relative risk. (using 2 x 2 table)
4. Incidence density
5. Retrospective cohort design
6. Ordinal variable with examples
7. Logarithmic transformation of data
8. The mean haemoglobin levels of 10 pregnant women was 10.8 and the standard deviation was 1.6. Calculate the 95% confidence intervals and interpret

QP Code: 104314   **Max Marks: 50**

Section B – Quantitative and Qualitative Research Methods

Short Essays: **(2x10=20)**

1. Using an appropriate example, write down steps involved in sampling in a study that uses a cluster sampling technique. Also mention the considerations during data analysis
2. Discuss the approach to analysis and reporting of qualitative studies

Short Notes: **(6x5=30)**

3. Vancouver style of referencing
4. Translation and back translation
5. Difference between reliability and validity
6. Grounded theory
7. Non-participant observation
8. Give two different ways in which the variable "overweight" can be operationalized in a study. List advantages and disadvantages of each option

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