

MPH Part I Degree Supplementary Examinations December 2021

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 a structure and steps of conducting an Randomised Controlled Trial. What are the different types of Randomisation methods.
2. Describe Normal distribution and its properties. What are the different methods to check the Normality of the data.

Short Notes:

(6x5=30)

3. Odds ratio
4. Blinding
5. Measures of dispersion
6. Cohort Study
7. Bias in a cross sectional study
8. Tabulation and Graphical Presentation of Data.

QP Code: 104314

Max Marks: 50

Section B – Quantitative and Qualitative Research Methods

Short Essay:

(2x10=20)

1. Describe Grounded theory research approach. What is meant by saturation in qualitative research context.
2. Describe the factors affecting the sample size in different studies. Calculate the sample size for estimating a prevalence of diabetes of around 25% with an absolute precision of 5%.

Short Notes:

(6x5=30)

3. Scales of Measurements
4. Multivariate analysis
5. Thematic analysis
6. Ethical issues in qualitative research
7. Questionnaire and Interview schedule.
8. Types of variables
