

Reg. No.....

**MPH Part I Degree Regular/Supplementary Examinations  
November 2019**

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

**Time: 3 Hours**

**Max Marks: 100**

- Answer all the questions
- 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. In a study, women with pre-eclampsia and a normal comparison group were followed up till delivery and the birth weight of the baby was noted. Discuss the study design, approach to analysis (use 2 by 2 tables to explain) and possible pitfalls of the design.
2. Briefly discuss methods of summarizing and analysing continuous variables

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

3. Case control study.
4. Criteria for assessing causation
5. Recall bias
6. Box plot
7. Skewness and kurtosis
8. A study reported that the average blood sugar of 80 men studied was 114 mg/dl (Standard deviation – SD 8 mg/dl); and the average blood sugar of 30 women studied was 114 mg/dl (SD 15 mg/dl). What can you infer from the given results

**QP Code: 104314**

**Max Marks: 50**

**Section B – Quantitative and Qualitative Research Methods**

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

1. How would you ensure good reliability and validity in quantitative research
2. Describe the steps of conducting and documenting focus group discussions.  
How would you analyse such data.

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

3. Steps in literature review
4. Pilot testing
5. Sampling frame
6. Ethnography
7. Scales of measurement.
8. In-depth Interview method in Qualitative Research

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