

Reg. No.....

**MPH Part I Degree Regular/Supplementary Examinations April 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. How will you design a study to prove the efficacy of a new drug compared to an existing drug.
2. What are various test for statistical significance and discuss about the existing statistical softwares

**Short Notes:**

**(6x5=30)**

3. Describe about Odds ratio.
4. Differentiate between point prevalence and period prevalence.
5. Types of data
6. Outbreak Investigation
7. Confounding
8. Given below the weight (kg) and height (cms) of 10 students. Calculate mean, median and mode BMI and calculate confidence interval

Weight (Kgs)	45	42	46	43	41	47	48	45	43	47
Height (Cms)	143	135	156	134	154	134	145	153	137	146

**QP Code: 104314**

**Max Marks: 50**

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

**Short Essay:**

**(2x10=20)**

1. Describe Focus Group Discussion and In-depth interview methods of data collection and discuss its use in qualitative research.
2. Discuss about various study designs in quantitative research and briefly elucidate about case-control study design.

**Short Notes:**

**(6x5=30)**

3. Scales of measurement.
4. Sensitivity and specificity
5. Kappa statistics
6. Translation and Transcription.
7. Ethnographic Interviews.
8. Domains and codes

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