

**Rajiv Gandhi University of Health Sciences**  
**II Semester M.Sc [Clinical Research] Degree Examination – OCT-2019**

[Time: 3 Hours]

[Max. Marks: 50]

**BIostatistics II**  
**Q.P. CODE: 9685**

(SECTION – A)

Your answers should be specific to the questions asked.

Draw neat, labeled diagrams wherever necessary.

**(Note : Both QP Codes 9685 and 9686 are to be answered within total duration of 3 hours)**  
**(Use separate answer booklets for section A and section B)**

**LONG ESSAY****1 X 20 = 20 Marks**

1. What is case-control study? Describe how do you select cases and controls in case-controls studies?

**SHORT ESSAY****2 X 10 = 20 Marks**

2. Explain different types of clinical trials. Describe planning processes in randomized clinical trial.
3. What is cohort study? List the merits and demerits of cohort studies.

**SHORT NOTES****2 X 5 = 10 Marks**

4. Enumerate different types of quasi-experimental designs.
5. In a clinical study, the efficacy of two drugs are to be evaluated. It is assumed that the first drug has a cure rate of 30% while the second drug 70%. Given  $Z_\alpha = 1.96$  and  $Z_\beta = 1.24$ , calculated adequate sample size for the study.

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