

**MAY 2011**

**[KY 234]**

**Sub. Code: 3001**

**M.Sc. (EPIDEMIOLOGY) DEGREE EXAMINATION.**

**Part I**

**Paper I – PRINCIPLES OF EPIDEMIOLOGY AND BIostatISTICS**

***Q.P. Code : 313001***

**Time : Three hours**

**Maximum : 100 marks**

**Answer All questions.**

**I. Elaborate on :**

**(2 x 20 = 40)**

1. What are the differences between Observational studies and experimental studies?  
Explain analysis of a cohort study with a suitable example.
2. When do we use ANOVA one-way and Two-way tests and what are the assumptions?  
Explain ANOVA one-way with an example.

**II. Write notes on :**

**(10 x 6 = 60)**

1. Selection of Controls in a case-control study
2. Bradford Hill's criteria for causality
3. Internal and external validity
4. Health economics and Cost benefit analysis
5. Correlation coefficient
6. Direct standardization
7. Life tables
8. Laws of probability
9. Cluster sample
10. Environmental Pollution & methods of prevention.

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