[LN 1018]

M.Sc. BIOSTATISTICS EXAMS FIRST YEAR (New Regulation)

OCTOBER 2018

PAPER II - EPIDEMIOLOGY AND DESIGN OF EXPERIMENTS

Q.P. Code : 282862

Maximum : 100 Marks

I. Elaborate on:

Time : Three hours

- 1. Explain in detail of various study designs used in Epidemiology.
- 2. Discuss the various processes to carry out Meta analysis.

II. Write notes on:

- 1. Describe the term mortality and morbidity and state any two rates in each and its use.
- 2. Measure the cause of death.
- 3. Write a note on sensitivity, specificity and predictive values in terms of diagnostic procedure.
- 4. Summarize multiple and parallel test.
- 5. Evaluate models and types of pedigree diagram.
- 6. Outline the basic concepts of human genetics.
- 7. Explain hardy Weinberg equilibrium and its application.
- 8. Write short notes on genetic epidemiology.
- 9. Describe single and double blind trial.
- 10. Discuss total and partial confounding in a 2³ factorial Experiment.

Sub. Code: 2862

 $(10 \times 6 = 60)$

 $(2 \times 20 = 40)$