

DF-1494

M. Sc. (Sem. III) (Microbiology) Examination

March / April - 2016

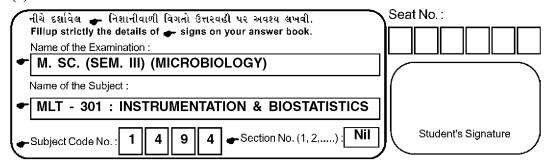
MLT - 301: Instrumentation & Biostatistics

Time: 3 Hours]

[Total Marks: 70

Instructions:

(1)



(2) Draw figures whenever necessary.

1. Write in brief: any two

 $2 \times 9 = 18$

- a) Principle and applications of various types of electrophoresis.
- b) Principle and illumination system of compound microscope.
- c) Principle and Applications of digital pH meter.

2. Write in brief: any two

 $2 \times 9 = 18$

- a) Principle and applications of various types of centrifuge.
- b) Principle and applications of asbestos and candle filters.
- c) Principle and applications of electron microscopy.

3. Write short notes: any three

 $3 \times 6 = 18$

- a) Applications of Hot air oven
- b) Applications of PCR
- c) Fumigator for air sterilization
- d) Role of Biostatistics in laboratories

4. Write in one to two sentences: any four

 $4 \times 4 = 16$

- a) What is use of data analysis?
- b) What is frequency curve?
- c) What is Null hypothesis?
- d) What is the significance of p value?
- e) What is chi square test?