DF-1495

M. Sc. (MLT) (Sem. III) Examination
March / April – 2016
MLT-301 : Instrumentation & Biostatistics
(Biochemistry)

Time : 3 Hours] [Total Marks : 70
Instructions :
(1) Fill up strictly the details of signs on your answer book.

Name of the Examination :
M. SC. (MLT) (SEM. III)

Name of the Subject :
MLT-301 : INSTRUMENTATION & BIOSTATISTICS

Subject Code No. : 1 4 9 5 Section No. (1, 2, ....) : Nil

(2) Draw figures whenever necessary.

1. Write in brief: any two 2 x 9 = 18
   a) Principle, techniques and uses of Atomic absorption spectroscopy
   b) Principle, techniques and uses of SDS - PAGE electrophoresis
   c) Enumerate the different radio isotopes and their application in medical field

2. Write in brief: any two 2 x 9 = 18
   a) Principle, techniques and applications of Affinity chromatography
   b) Principle, techniques and applications of Paper chromatography
   c) Principle, techniques and applications of Two dimensional electrophoresis

3. Write short notes: any three 3 x 6 = 18
   a) Techniques and applications of ELISA
   b) Principle and applications of HPLC
   c) Techniques and applications competitive Radioimmunoassay (RIA)
   d) Applications of computer in clinical laboratory

4. Write in one to two sentences: any four 4 x 4 = 16
   a) Enumerate the uses of electrophoresis?
   b) Usefulness of data analysis
   c) What is standard deviation?
   d) Significance of student ’t’ test
   e) Principle of electrolyte analyzer