DF-1499

M. Sc. (Medical Laboratory Technology) (Part-II) (Sem. III) Examination
March / April – 2016
MLT-306 : Biochemistry-II
(Molecular Biology)

Time : 3 Hours] [Total Marks : 70

Instructions :
(1) Fill up strictly the details of sign on your answer book.

Name of the Examination : M. SC. (MEDICAL LABORATORY TECHNOLOGY) (PART-II) (SEM. III)
Name of the Subject : MLT-306 : BIOCHEMISTRY-II

Subject Code No. 1 4 9 9 Section No. (1, 2, ...): N/N

Seat No. 

(2) Answer all the questions.
(3) Illustrate the answers with neat and labeled diagram when necessary.
(3) Figures to the right indicate full marks of the question.

1. Give Detailed Answers(Any Two) (18)
   A. Discuss in detail the metabolism of phenyl alanine. Justify : Deficiency in the PAH gene leads to genetic disorder.
   B. What are the criterias for primer designing. Explain the role of various components in the success of PCR. Explain with an example the role of this technique in disease detection.
   C. Enlist the inborn errors of metabolism. Discuss in detail disorders associated with lipid metabolism.

2. Answer the following (Any Three) (18)
   A. Explain in detail the absorption of amino acids and its fate in human body.
   B. Discuss in detail the process of transcription and the role of splicing in protein synthesis.
   C. Discuss in detail the biosynthesis of pyrimidines.
   D. Give a detailed note on Cystinuria.
3. **Give Detailed Answers: (Any Three)**
   A. Explain in detail the biosynthesis of Urea.
   B. Justify: rDNA technology is changing the scenario of disease detection.
   C. Explain in detail the formation and fate of ammonia.
   D. Write a note on Glycogen storage disease.

4. **Write Short Notes (Any Two)**
   A. Galactosemia
   B. Gauchers disease.
   C. Tay-Sachs disease.