

Code No. 3598 / CBCS / Non-CBCS

FACULTY OF SCIENCE

M.Sc. III – Semester (CBCS / Non-CBCS) Examination, December 2014

Subject: Biochemistry

Paper - III: Virology, Nutrition and Clinical Biochemistry

Time: 3 Hours

Max. Marks: 80

**Note: Answer all questions from Part - A and Part - B.
Each question carries 4 marks in Part - A and 12 marks in Part - B.**

**PART – A (8 x 4 = 32 Marks)
(Short Answer Type)**

- 1 Define bacteriophages? Write in detail about the composition and structure of bacteriophages.
- 2 Describe the plaque assay for the determination of phage titre.
- 3 Write the structure and morphological characters of adenovirus.
- 4 What are viroids? Give examples.
- 5 Mention the factors that influence calorie requirement of men and women.
- 6 Explain briefly the following:
 - (i) Essential fatty acids
 - (ii) Pellagra
- 7 Explain the diagnostic significance of transaminases.
- 8 Write a note on biochemical abnormalities.

**PART – B (4 x 12 = 48 Marks)
(Essay Answer Type)**

- 9 (a) Discuss the Baltimore classification system.
OR
(b) Describe the clinical applications of Bacteriophage.
- 10 (a) Write an essay on isolation, purification and cultivation of animal virus.
OR
(b) Write the symptom, mode of transmission, control measure and structure of TMV.
- 11 (a) Describe the causes, diagnosis and treatment of type II diabetes mellitus.
OR
(b) What is BMR? How is it calculated? Explain the factors that affect BMR.
- 12 (a) List out the different renal function tests and explain briefly their significance.
OR
(b) Discuss in detail the automation in clinical laboratory.
