

FACULTY OF SCIENCE

M. Sc. III – Semester (CBCS / Non-CBCS) Examination, December 2016

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 Host-specific interaction
- 2 Plaque assay
- 3 Persistent viral infection
- 4 Poliovirus
- 5 Food fortification
- 6 BMR
- 7 Etiology of Anemia
- 8 Write about free radical formation and its clearance

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

- 9 (a) Outline Baltimore system of virus classification.
OR
(b) Discuss in detail about life cycle of ϕ X 174.
- 10 (a) List the viruses affecting the liver. Describe the pathogenesis, various markers and its significance in Hepatitis B virus infection. Who is at increased risk of HBV infection?
OR
(b) Write about the morphology, antigenic structure, variation, pathogenesis and prophylaxis of influenza.
- 11 (a) What is blood pressure? What are the signs and symptoms of high blood pressure? How salt intake affects blood pressure?
OR
(b) Discuss in detail about nutritional assessment methods and their pros and cons.
- 12 (a) Write about chemical examination of urine and CSF. When it advocates?
OR
(b) Give an account on acid base balance in the body and associated disorders.
