

Code No. 4550 / CBCS / NONCBCS

FACULTY OF SCIENCE

M.Sc. IV-Semester (CBCS/NONCBCS) Examination, May / June 2015

Subject : Biochemistry

Paper : I

Endocrinology and Metabolism Disorders

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 Explain the mechanism of action of parathyroid hormone.
- 2 Give a detailed note on growth hormone secretion, function and associated disorder.
- 3 Write briefly on ovarian cycle.
- 4 Explain the chemistry and function of placental hormones.
- 5 Give an account on hemoglobinopathies.
- 6 Comment on orotic aciduria.
- 7 Write a note on Farber disease.
- 8 Give an account on Krabbe disease.

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

- 9 a) Discuss the biosynthesis, storage and metabolism of catecholamines.
OR
b) Write briefly on the structure and the biological actions of androgens and estrogens.
- 10 a) Discuss in detail the hormonal regulation of calcium homeostasis.
OR
b) Elaborate the feedback control of hormones.
- 11 a) Explain in detail about Thalassemias.
OR
b) Discuss about glycogen storage diseases.
- 12 a) Explain the abnormalities of nucleic acid metabolism.
OR
b) Describe lysosomal acid lipase deficiency disorders.
