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.

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