

ENDOCRINOLOGY

PAPER – I

ENDO/J/17/07/I

Time : 3 hours

Max. Marks : 100

Important instructions:

- Attempt all questions in order.
- Each question carries 10 marks.
- Read the question carefully and answer to the point neatly and legibly.
- Do not leave any blank pages between two answers.
- Indicate the question number correctly for the answer in the margin space.
- Answer all the parts of a single question together.
- Start the answer to a question on a fresh page or leave adequate space between two answers.
- Draw table/diagrams/flowcharts wherever appropriate.

Write short notes on:

1. Transcription factors and organogenesis of pancreas, adrenals and pituitary. 4+3+3
2. G-protein coupled receptor in pathogenesis of endocrine diseases. 10
3. a) What is free hormone assay? 2+(2+2+2+2)
b) Indirect, 1 step, 2 step and antibody labeled assay.
4. Fallacies of cardiovascular outcome trials of anti diabetic agents EMPA-REG & LEADER. 5+5
5. Kaplan Meier curve. 10
6. Metabolically healthy obesity. 10
7. Analytic validation. 10
8. Functional hypothalamic amenorrhea: Investigations and treatment. 5+5
9. a) What are the clinical features of SHOX deficiency? 5+5
b) Growth hormone therapy in SHOX deficiency.
- 10 Isolated gonadotropin deficiency: Investigations, treatment options and outcomes. 4+4+2
