

PAPER – I

ENDO/D/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:

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| 1. Describe the steps in expression of a protein encoding gene and subcellular structure of cells that secrete protein hormones. | 5+5 |
| 2. Various assays for hormone assessment. | 10 |
| 3. What are confidence intervals, power and type I & II error probability? | 3+3+4 |
| 4. Adipose tissue as an endocrine organ. | 10 |
| 5. Disposition index and its relation to insulin resistance. | 5+5 |
| 6. Endocrine maternal adaptation to pregnancy. | 10 |
| 7. 46 ,XY disorders of sex development. | 10 |
| 8. Monogenic causes of obesity and obesity syndromes due to chromosomal re-arrangements. | 5+5 |
| 9. Quality control systems and investigation of discordant test values. | 5+5 |
| 10. Assessment of β cell reserve. | 10 |
