

ENDOCRINOLOGY

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 |
