

**ENDOCRINOLOGY**

PAPER-I

ENDO/D/18/07/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. Describe analytical validation of hormonal assays. 10
2. Endocrine rhythms. 10
3. Non-surgical management of obesity 10
4. Endocrine disorders attributed to defects in the G-protein coupled receptor signaling system. 10
5. Utility of growth charts in the evaluation of short stature. 10
6. Evaluation and long term management of an 8-year-old girl with chronic mucocutaneous candidiasis, hypoparathyroidism and Addison's disease. 5+5
7. Development of the pituitary gland. 10
8. Vasopressin antagonists. 10
9. Evaluation and management of a 25-year-old lady with polyuria. 7+3
10. Advantages and disadvantages of case-control studies. 5+5

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