

**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:**

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| 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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