

**ENDOCRINOLOGY**

**PAPER-I**

Time: 3 hours  
Max. Marks:100

ENDO/J/20/07/I

**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. Normal distribution of data.  | 10    |
| 2. Development of the pituitary gland, role of Transcription factors and their clinical relevance.               | 4+3+3 |
| 3. Role of cyclic AMP in the hormonal signaling.   | 10    |
| 4. a) Specificity spill over.<br>b) Heterophile antibody.<br>c) Use of liquid chromatography in Endocrinology.   | 4+3+3 |
| 5. Assessment of pancreatic beta cell reserve and insulin resistance in the laboratory and in clinical practice. | 5+5   |
| 6. Mechanisms controlling onset of puberty.  | 10    |
| 7. Nutritional & metabolic management of post bariatric surgery state.   | 10    |
| 8. Molecular basis for Metabolic Memory.   | 10    |
| 9. Endocrine disrupting chemicals.   | 10    |
| 10. Physiology of melatonin and its therapeutic potential.   | 10    |

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