

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.
b) Heterophile antibody.
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 |
