

**ENDOCRINOLOGY**

**PAPER-I**

Time: 3 hours  
Max. Marks:100

ENDO/D/20/07/I

**Important Instructions:**

- *You are provided with 5 answer sheet booklets. Each individual answer sheet booklet consists of 10 pages excluding the covering jackets.*
- *Answers to all the questions must be attempted within these 5 answer sheet booklets which must be later tagged together at the end of the exam.*
- *No additional supplementary answer sheet booklet will be provided.*
- *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. Diseases caused by mutation in G protein coupled receptors. 10
2. FGF 23 in endocrine disorders. 10
3. Adrenal steroidogenesis. 10
4. Obesity and inflammation. 10
5. Enumerate Pituitary transcription factors and discuss in detail PIT1 & PROP1. 5+5
6. Melatonin effects on glucose metabolism. 10
7. Sample size calculation for a study. 10
8. Multiple endocrine neoplasia type 1. 10
9. Side effects of growth hormone therapy. 10
10. Discuss management of hypophosphatemic rickets in a 5-year-old boy on following issues: 5+5
  - a) Drug treatment.
  - b) Plan for follow-up for next 6 months on OPD basis including investigations to be done.

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