

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.
