

ENDOCRINOLOGY**PAPER-III**Time: 3 hours
Max. Marks:100

ENDO/J/19/07/III

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:

1. Androgen receptor, its ligands and post receptor signaling mechanism. 2+3+5
2. Discuss induction of puberty in a 15-year old girl with hypogonadotropic hypogonadism. 10
3. Therapeutic options for treatment of Polycystic Ovary Disease (PCOD). 10
4. Initiation of treatment in a 15 days old newborn (weight 4.2 kg) diagnosed to have primary hypothyroidism (TSH >500 mIU/l) and follow-up management during first year of life. 5+5
5. Discuss plan of evaluation in a 35 year old man with impotence. 10
6. Mechanisms controlling normal puberty induction. 10
7. Sick Euthyroid Syndrome (SES) and indications for starting treatment. 5+5
8. Discuss utility of genetic studies in a newborn diagnosed to have congenital adrenal hyperplasia (CAH) with 17-hydroxy progesterone (17-OH P) level of >100 ng/ml. 10
9. Factors controlling testis determination in bi-potential gonad during fetal life. 10
10. Newer treatment options of Thyroid Associated Ophthalmopathy (TAO). 10
