

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:

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| 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 |
