

**ENDOCRINOLOGY**

**PAPER- I**

**ENDO/D/11/07/I**

**Time : 3 hours**

**Max. Marks : 100**

**Attempt all questions in order.  
Each question carries 10 marks.**

**Write short notes on:-**

- |     |  |    |
|-----|--|----|
| 1.  | Signaling pathways downstream from the insulin receptor. | 10 |
| 2.  | Glucose-glucagon axis.                                   | 10 |
| 3.  | Non-osseous effects of vitamin 'D'.                      | 10 |
| 4.  | Brown adipose tissue and hormonal modulation.            | 10 |
| 5.  | Adrenocortical dysfunction in septic shock.              | 10 |
| 6.  | Osteoclast formation, differentiation and function.      | 10 |
| 7.  | Prediabetes.   | 10 |
| 8.  | Prolactin regulating factors.                            | 10 |
| 9.  | Immuno-chemiluminiscence assay.                          | 10 |
| 10. | Sodium-glucose-cotransporter-2 (SGLT-2) inhibitors.      | 10 |

\*\*\*\*\*

**ENDOCRINOLOGY**

**PAPER- II**

**ENDO/D/11/07/II**

**Time : 3 hours**  
**Max. Marks : 100**

**Attempt all questions in order.**  
**Each question carries 10 marks.**

**Write short notes on:-**

1. Discuss the effects of Iodine excess. 10
2. Growth hormone deficiency in adults. 10
3. Outline management strategy for a new born with cryptorchidism. 10
4. Continuous glucose monitoring. 10
5. Approach to the obese adolescent with new onset diabetes mellitus. 10
6. Neonatal hypothyroidism. 10
7. A 25 year old lady on treatment for macroprolactinoma with cabergoline is 3 months pregnant. Outline management of the care. 10
8. Outline causes of hyponatremia in an elderly patient. Briefly discuss the treatment. 10
9. Approach to a patient with adrenal incidentaloma. 10
10. Long term follow up of patients of Turner's Syndrome. 10

\*\*\*\*\*

**ENDOCRINOLOGY**

**PAPER- III**

**ENDO/D/11/07/III**

**Time : 3 hours**  
**Max. Marks : 100**

**Attempt all questions in order.**  
**Each question carries 10 marks.**

**Write short notes on:-**

1. Outline management of 16 year old girl with primary amenorrhoea. 10
2. Laboratory diagnosis of primary Hyperaldosteronism. 10
3. Brief note on performance enhancing hormones used by athletes. 10
4. Adverse effects of bisphosphonates. 10
5. Evaluation and management of androgen excess among postmenopausal women. 10
6. Type 2 Diabetes mellitus-prevention strategies. 10
7. Pharmacotherapy for obesity. 10
8. Evaluation of hypercalcemia in an elderly patient. 10
9. PET scan in endocrine practice. 10
10. Glycemic control of patients in intensive care settings. 10

\*\*\*\*\*