

**ENDOCRINOLOGY**

PAPER – III

ENDO/D/16/07/III

Time : 3 hours

Max. Marks : 100

**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. SGLT-2 inhibitor – mechanism of action, side effects, with a special reference to mechanism of euglycemic ketoacidosis. 2+3+5
2. EMPA-REG Trial. 10
3. Critical illness related cortisol insufficiency (CIRCI) : when to diagnose and treat. 5+5
4. Role of genomics in the pharmacotherapy of diabetes. 10
5. a) Insulin analogues 5+5  
b) Outline the concept about Smart Insulin.
6. Thyroid nodules – what molecular markers are most useful. 10
7. Genetics of primary aldosteronism. 10
8. Tumour suppressor genes and oncogenes in pituitary tumourigenesis. 10
9. Salivary cortisol : Role in diagnosis of Cushing's syndrome. 10
10. Role of Parathyroid hormone in management of hypoparathyroidism. 10

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