

PAPER - I

ENDO/D/14/07/I

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.
- Outline the various methods used for measurement of HbA₁C (glycosylated haemoglobin); the associated false positives and the methods for quality assurance.
- 2. Outline the methods for screening for ganilid and inherited pheochromocytoma syndromes, with regards to inheritance patterns. What are the mutations associated and their genetic loci?
- Outline the clinical profile and mutations associated with Maturity
 Onset Diabetes of the Young (MODY).
- 4. What are the types of clinical trials? What is meant by Phase 1, Phase 2, Phase 3 & Phase 4 clinical trials?
- 5. Write note on the hormonal pathways which are causally associated with obesity.
- 6. Describe the pathogenetic mechanisms in the clinical evolution of diabetic ketoacidosis.
- 7. Describe the role of transcription factors in the causation of congenital hypopituitarism. Describe the phenotypic association of each transcription factor anomaly in this disease state.
- 8. Describe and outline the causes for congenital and acquired 10 growth hormone resistance.
- 9. Outline the methodology and steps in doing a radioimmunoassay.

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 What are the safety measures and drawbacks?
- 10. Outline the endocrinology and biochemistry involved in normal parturition.
