

[LO 0519]

MAY 2019

Sub. Code: 2001

**FELLOWSHIP IN CLINICAL DIABETOLOGY EXAMS  
FINAL YEAR  
PAPER I – BASIC SCIENCES AND LABORATORY IN DIABETES**

*Q.P. Code : 232001*

**Time : Three hours**

**Maximum : 100 Marks**

**I. Elaborate on:**

**(2 x 20 = 40)**

1. Explain the etiopathogenesis of Ketone bodies production and their implication in blood. Write in detail on the diagnosis and management of Diabetic Ketoacidosis.
2. Discuss in detail the physiological response to hypoglycemia in normal persons and in patients with diabetes. Add a note on classification and management of hypoglycaemia.

**II. Write notes on:**

**(10 x 6 = 60)**

1. Molecular basis of insulin resistance and measurements of Insulin resistance.
2. Blood supply to pancreas.
3. Insulin Tolerance Test.
4. Genetic beta-cell defects.
5. Inflammatory Markers.
6. Anatomy of islets of langerhans.
7. Non glucose lowering properties of Insulin.
8. Incretin effect.
9. Informed consenting process in clinical trials.
10. Screening for diabetes.

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