

DIPLOMA IN DIABETOLOGY (D.DIAB) EXAMINATION
APPLIED BASIC MEDICAL SCIENCES IN DIABETOLOGY

Q.P. Code: 343071

Time: Three Hours

Maximum: 100 Marks

I. Elaborate on:

(2 x 15 = 30)

1. Discuss the structure of proinsulin and describe the pathway and regulation of conversion of proinsulin to insulin.
2. Discuss the metabolic abnormalities involved in the aetiopathogenesis of diabetes related microvascular complications.

II. Write notes on:

(10 x 7 = 70)

1. Phases of glucose homeostasis.
2. Development of pancreatic islets.
3. Advanced Glycation End (AGE) products.
4. Beta cell desensitization.
5. Intravenous Glucose Tolerance Test (IV GTT).
6. Muscle fuel metabolism in exercise and starvation.
7. DPP-4 Enzyme.
8. "Single gateway hypothesis" of FFA metabolism.
9. Role of kidney in protein metabolism.
10. Surgical anatomy of the foot.
