

QP Code:104103

Reg.No.:.....

**PG Degree Supplementary Examinations in Biochemistry (MD) -
November 2014**

Paper IV - Clinical Biochemistry & Endocrinology

Time: 3 hrs

Max marks:100

- ***Answer all questions***
- ***Draw diagrams wherever necessary***

Essays:

(20)

1. What are the ADA(American Diabetes Association) diagnostic criteria of diabetes mellitus. Describe the mechanism of action of Insulin on target cells. Explain how Insulin plays a central role in the metabolism.

Short essays:

(8x10=80)

2. Two applications each of PSA, HCG, AFP, CEA and CA-124.
3. Hormonal regulation of serum calcium levels
4. Metabolic effect of insulin on glycolysis and gluconeogenesis.
5. Role of biochemistry in sports medicine.
6. Clinical interpretation of ALP and ALT with respect to liver function
7. Describe two tests to estimate increased risk of cardiovascular disease
8. What is renal clearance and how it is estimated. Why creatinine clearance is superior to urea clearance.
9. Five therapeutic applications of radioisotopes
