

[LC 0413]

APRIL 2013

Sub. Code: 1202

M.Sc BIOCHEMISTRY DEGREE EXAMINATION

Candidates admitted from 2008-2009 batch

**PAPER II - ENZYMES, INTERMEDIATE METABOLISM AND NUTRITION
INCLUDING MINERALS AND VITAMINS HOMEOSTASIS**

Q.P. Code : 281202

Time : 3 hours

Maximum : 100 marks

I. Elaborate on:

(2x20=40)

1. Classify enzymes. Describe in detail the mechanism of action of enzymes. Add a note on factors regulating enzyme action.
2. Describe in detail the steps involved in Tricarboxylic acid cycle. Add a note on energetic and regulation of the same.

II. Write notes on :

(10X6=60)

1. Glucose tolerance test.
2. Components of electron transport chain and its inhibitors.
3. Glycogenesis.
4. Phenylketonuria.
5. Urea cycle disorders.
6. National nutrition program.
7. Wilson's disease.
8. Biochemical functions of thiamine and its deficiency manifestations.
9. Phase I detoxification reactions.
10. Lipotropic factors.
