

(2012 Scheme)

APPLIED BIOCHEMISTRY & MOLECULAR BIOLOGY

Time: 3 Hours

Total Marks: 100

- Answer all Questions.
- Write equations wherever necessary.

Essay

(3x10=30)

1. What are lipids. Explain the steps involved in the β -oxidation of fatty acids.
2. Discuss about Gluconeogenesis and its significance.
3. Discuss in detail about the various factors which affects the enzyme activity.

Short notes

(14x5=70)

4. Atherosclerosis
5. Active transport across cell membrane
6. What are co-enzymes and mention its biological significance.
7. Mechanism of oxidative phosphorylation.
8. TCA cycle.
9. Biochemical role of 5-hydroxy tryptophan and dopamine.
10. Translation.
11. Differentiate the structure of glucose and sucrose.
12. Ketogenesis and ketolysis
13. Define and classify amino acids.
14. DNA replication.
15. Classify lipids, mention the biological significance of lipids
16. Diagnostic application of enzymes.
17. Phospholipids.
