

I Semester M.Sc. in Biotechnology Examination, September 2016
BIOCHEMICAL TRANSFORMATION AND CLINICAL SIGNIFICANCE

Time : 3 Hours

Max. Marks : 80

Instructions : Answer all the Sections.

SECTION – A

Answer any four questions from the following :

(4×5=20)

1. Glyoxylate cycle.
2. Mitchell's hypothesis.
3. Atherosclerosis.
4. Gout and Lesch-Nyhan syndrome.
5. Photorespiration.
6. Urea cycle.

SECTION – B

Answer any three questions from the following :

(3×10=30)

7. Glycolysis.
8. Photosystem I and II.
9. β -oxidation of saturated fatty acid.
10. Metabolic disorders of nucleotide metabolism.
11. Diabetes mellitus.

SECTION – C

Answer any two questions from the following :

(2×15=30)

12. Explain in detail about electron transport chain.
13. Describe the Calvin cycle. Add a note on Rubisco.
14. Give an account on the biosynthesis of saturated fatty acid.
15. Write in detail about the synthesis of IMP by de novo pathway.