

Exam. Code : 107403

Subject Code : 1837

B.Sc. Biotechnology 3rd Semester

BIOCHEMISTRY—C

Paper—BT-3

Time Allowed—3 Hours] [Maximum Marks—40

Note :—Candidates are to attempt 5 questions, one from each Section. Fifth question may be attempted from any Section. All questions carry equal marks.

SECTION—A

1. Write short notes on the following : 8
 - (a) Oxidation
 - (b) Reduction
 - (c) Catabolism
 - (d) Bioenergetics.
2. Discuss the basic principles of bioenergetics in detail. 8

SECTION—B

3. Enumerate the glucogenic substrates and explain its different reactions. 8
4. Describe in detail the process of glycolysis. Give its energetics. 8

SECTION—C

5. Describe different steps of Kreb's cycle. Write a note on its amphibolic role. 8
6. What is glyoxylate pathway ? Give its diagrammatic representation. 8

SECTION—D

7. What is oxidative phosphorylation ? Discuss its inhibitors and uncouplers. 8
8. Give diagrammatic representation of ETC and sites of ATP production. 8

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