

(i) Printed Pages : 2

Roll No.

(ii) Questions : 9

Sub. Code :

0	9	7	2
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Exam. Code :

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B.Sc. (Hons.) Biotechnology 3rd Semester
(2123)

BIOCHEMISTRY

Paper—BIOT-301-T

Time Allowed : Three Hours]

[Maximum Marks : 67

Note :— Attempt **FIVE** questions in all. Question No. 1 is compulsory.
Select **ONE** question from each Unit.

1. (a) Define Glycolysis. 2
- (b) What is the role of Fatty Acid Synthase complex ? 2
- (c) What is Urea Cycle ? 2
- (d) What are Biogenic amines ? Give examples. 3
- (e) What are Porphyrins ? Give examples. 3
- (f) What are Bile pigments ? Give examples. 3

UNIT-I

2. Write notes on :

(a) Substrate level phosphorylation

(b) Activated Carriers.

6.5×2

3. (a) Discuss structural basis of High phosphoryl transfer Potential of ATP. 6.5×2
- (b) Briefly write about Coupled kinetic reactions.

UNIT-II

4. Deliberate on steps of Glycolysis. What are feeder pathways of Glycolysis ? 13
5. What is Oxidative Phosphorylation ? Elaborate on the steps involved. 13

UNIT-III

6. Elaborate on steps in Cholesterol Biosynthesis. Discuss regulation also. 13
7. Write about Ketone body formation, their functions and physiological significance. 13

UNIT-IV

8. (a) Discuss how amino acids act as precursors of Biogenic amines. 7
- (b) Write about biosynthesis of non-essential amino acids. 6
9. Discuss pathway for biosynthesis of Pyrimidines. 13