S.E-III Sem-Biotech
Biochemistry
(5)

SE/TI/CBGS/BT/BIOCHEM. QP Code: 30578

(3 Hours)

[Total Marks: 80

N.B 1. Question No.1 is compulsory

C12016

- 2. Attempt any three questions out of the remaining questions.
- 3. Draw suitable diagrams wherever necessary.

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5X4=20M

- (a) Activation energy and transition state
- (b)Derive Henderson Hasselbach equation
- (c)Difference between photophosphorylation and oxidative phosphorylation
- (d)Classification of Vitamins

Q.2 (a) Discuss various non-covalent interactions in biological systems	M8
(b) Discuss the classification of enzymes	7M
(c) Differentiate between C3 and C4 plants	5M
Q.3 (a) What are lipids? How are they cl; assified?	10M
(b) Explain ETC in detail.	10M
Q.4 (a) Explain Citric acid cycle in detail.	10M
(b) Explain the secondary and tertiary structures in detail.	10M
Q.5 (a) Explain the mechanism of transamination and deamination	10M
(b) Explain Z Pathway	10M
Q.6 (a) Explain the different factors affecting enzyme activity	8M
(b) Laws of thermodynamics in detail	7M
(c) Classification of carbohydrates	5M