

Printed Pages : 2



EBT-301

(Following Paper ID and Roll No. to be filled in your Answer Book)

PAPER ID : 154307

Roll No.

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B. Tech.(SEM. III) (ODD SEM.) THEORY
EXAMINATION, 2014-15**BIOCHEMISTRY**

Time : 3 Hours]

[Total Marks : 100

- 1 Write short notes on : (Attempt any **four**) : **4×5=20**
- (a) Glucose –Alanine Cycle
 - (b) TCA cycle
 - (c) Role of non covalent interactions in biological sciences
 - (d) Pentose Phosphate Pathway
 - (e) Ramachandran Plot
 - (f) β -oxidation
- 2 Attempt any **two** : **2×10=20**
- (a) Explain in detail about the disorders and diseases cause due to any 2 macromolecules.
 - (b) Give denovo pathway for the synthesis of purines or pyrimidine ?
 - (c) Write a note on urea cycle with its significance.

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[Contd...

3 Attempt any **two** : **2×10=20**

- (a) Describe the formation of pyruvate through carbohydrates metabolism from glucose with regulation.
- (b) Discuss in brief about the functions of multienzyme complexion Fatty acid synthesis.
- (c) Give the biosynthesis equation of any one ketonic and glucogenic amino acid.

4 Write short notes on : (Attempt any **four**) **4×5=20**

- (a) Ketone bodies
- (b) Mutarotation
- (c) Formation of deoxyribonucleotide
- (d) Tertiary and Quaternary structure of Protein.
- (e) Derived lipids
- (f) Biodegradation of amino acids.

5 Attempt any **two** : **2×10=20**

- (a) Give a general account on Buffers in Biological System.
 - (b) Write a note on oxidative phosphorylation.
 - (c) How the conversion of nucleoside mono phosphate to nucleoside tri phosphate occurs.
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