

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

- Glucose –Alanine Cycle
- TCA cycle
- Role of non covalent interactions in biological sciences
- Pentose Phosphate Pathway
- Ramachandran Plot
- β-oxidation

2 Attempt any **two** : 2×10=20

- Explain in detail about the disorders and diseases cause due to any 2 macromolecules.
- Give denovo pathway for the synthesis of purines or pyrimidine ?
- 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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