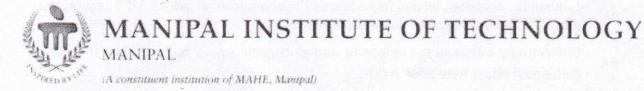
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III SEMESTER B.TECH BIOTECHNOLOGY END SEMESTER EXAMINATIONS, NOV/DEC 2018 SUBJECT: PROCESS BIOCHEMISTRY (BIO 2102)

REVISED CREDIT SYSTEM

Time: 3 Hours MAX. MARKS: 50

Instructions to Candidates:

- Answer ALL the questions.
- Missing data may be suitable assumed.

1A	Explain the role of acetyl CoA as a metabolic intermediate in different pathways.	4		
1B	What is Ramachandran plot? Describe the significance and applications.			
1C	What is inversion? Sucrose does not undergo muta rotation. Justify			
2A	Explain the synthesis of cholesterol and its functions.			
2B	Describe the regulation of glycolysis and gluconeogenesis.	4		
2C	Explain the role of IMP in the synthesis of nucleotides.			
3A	Compare and contrast the reactions of TCA bicycle.			
3B	Describe the structure of DNA and add a note on conformations of base pairs.	4		
3C	Write the significance of decarboxylation reactions in biological system with an example.			
4A	Describe the structure and functions of monosaccharides.	4		
4B	Elucidate the alpha oxidation pathway in eukaryotic cell.	4		

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4C	Explain the composition and importance of hyaluronic acid. Which MPS is principal ground tissue substance of mammalian tissue? Differentiate between the ketogenic and glucogenic amino acids. Explain the role of carbamoyl phosphate pool in cells.	
5A		
5B	Elucidate the mechanism of ATP synthesis.	4
5C	Explain the structure of mRNA.	2

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