2006 JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY

II B.TECH I SEMESTER REGULAR EXAMINATIONS BIO CHEMISTRY (BIO-TECHNOLOGY)

APRI/MAY 2006

TIME: 3HOUR MARK:100

ANSWER ANY FIVE QUESTIONS ALL QUESTIONS CARRY EQUAL MARKS

- 1. (a) What is a disaccharide?
- (b) Give two examples with structure?
- (c) Discuss the role of any two disaccharides is nutritional metabolism?
- 2. Write short notes on the following:
- (a) Lectins
- (b) Glycosaninoglycans
- (c) Glycoproteins
- 3. Describe how lovastatin inhibits cholesterol biosynthesis and write the importance of cholesterol as a biomembrance constituent.
- 4. What is an aminoacid? Justify the statement that amioacids are building block of proteins?
- 5. Describe the pathways in the biosynthesis of aromatic amino acids.
- 6. Schematically trace the pathways involved in the synthesis of glucose from
- (a) Glycerol
- (b) Aspartate
- 7. Discuss the process of plant photosynthesis in detail. How is it different from the bacterial photosynthesis?
- 8. Describe the role of enzymes in the process of photosynthesis.
