

Shahjalal University of Science & Technology, Sylhet

Department of Biochemistry & Molecular Biology

BMB221: Metabolism-I (09/06/2013)

Time- 45 minute Marks-15

- ~~1.~~ Briefly discuss the importance of Citrate as ion chelator. 2.0
- ~~2.~~ What are anaplerotic reactions? 3.0
- ~~3.~~ Briefly write down the regulation of Krebs cycle. 3.0
- ~~4.~~ Justify that-Conversion of pyruvate to phosphoenol pyruvate requires two exergonic reactions. 2.0
5. Fill the blanks with appropriate word/ words. 3.0
 - a) Urine contains abnormal amount of fumarate, α -KG, succinate in deficiency of
 - b) Gluconeogenesis is energetically
 - c) Glycolysis and gluconeogenesis are regulated *F 2 G BP*
6. Discuss the hypoglycemic condition in premature infants. 2.0