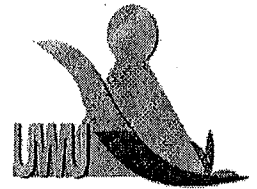




Uva Wellassa University, Sri Lanka
End Semester Examination – March 2011
SCT 323-1 Metabolism (Repeat)



Time: One (01) hour

Total 05 Questions
Answer four (04) questions only.

1.
 - a) Briefly explain what Hexose Phosphate Pool (HPP) is? (06 marks)
 - b) What is Ferredoxin-Thioredoxin system? (07 marks)
 - c) Explain the starch synthesis from cytosolic sucrose in maize endosperm. (12 marks)

2.
 - a) Briefly explain what is cori cycle. (08 marks)
 - b) Discuss about oxidative pentose phosphate pathway. (17 marks)

3. Write short notes on followings.
 - a) Importance of Nitrate Reductase pathway. (07 marks)
 - b) Anaerobic respiration. (08 marks)
 - c) Electron transport chain. (10 marks)

4.
 - a) Briefly explain what urea cycle is? (10 marks)
 - b) Discuss major steps in glycogen synthesis. (15 marks)

5.
 - (a) What is Hypercholesterolemia? (02 marks)
 - (b) State the differences between fatty acid synthesis and beta oxidation. (05 marks)
 - (c) Briefly explain the steps in beta oxidation of unsaturated fatty acids. (18 marks)