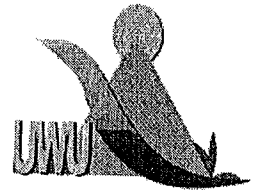


Uva Wellassa University, Sri Lanka
End Semester Examination – February/March 2012
SCT 323-1 Metabolism (Repeat)



Time: One (01) hour

Total 04 Questions.

Answer **three (03)** questions including the question number **one (01)**.

1.

- a) Briefly explain what Hexose Phosphate Pool (HPP) is? (10 marks)
- b) What is Ferredoxin-Thioredoxin system? (05 marks)
- c) Explain the starch synthesis from cytosolic sucrose in maize endosperm. (25 marks)

2.

- a) Briefly explain what cori cycle is. (10 marks)
- b) Discuss the oxidative pentose phosphate pathway. (20 marks)

3. Write short notes on followings.

- a) Importance of Nitrate Reductase pathway. (10 marks)
- b) Anaerobic respiration. (10 marks)
- c) Electron transport chain. (10 marks)

4.

- a) What are the major glycogen degradation pathways? (06 marks)
- b) Briefly explain how glycogen metabolism regulates blood glucose level. (09 marks)
- c) Explain the major steps of glycogen synthesis pathway. (15 marks)