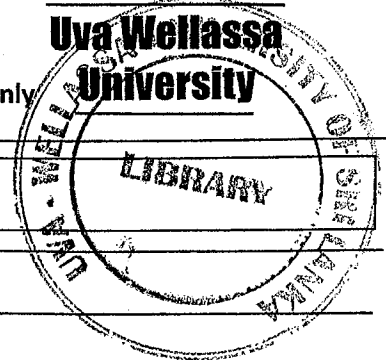




Uva Wellassa University, Sri Lanka
Faculty of Science and Technology
Industrial Information Technology Degree Program
1st Semester Examination February/March 2012
IIT 221-2 Computer Networks and Applications – Repeaters Only



Time Duration : Two (2) Hours
Number of Pages: One (1)

Index Number:

Instructions to Candidates: Answer only Three questions.

Q1.

- a. What is a Computer Network? Express the advantages of the computer network. (7 marks)
- b. What are the data transmissions types used in data communication system? Briefly explain them. (6 marks)
- c. What are the facts that should be concerned to identify a Computer Network? (6 marks)
- d. What are the common LAN physical Topologies? Briefly explain them including the advantages and disadvantages. (6 marks)

Q2.

- a. What are the three types of transmission Guided Medias? Explain them with their applications, advantages, and disadvantages. (7 marks)
- b. What are the two types of glass fiber-optic cable? Briefly explain them. (6 marks)
- c. List down three wireless communication methods. Briefly describe them with the applications. (6 marks)
- d. What are the mobile phone generation types? Describe them with their characteristics. (6 marks)

Q3.

- a. What is the meaning of a Network Layered Architecture and list down the advantages of layering? (7 marks)
- b. Briefly explain the OSI reference model. (6 marks)
- c. What are the services provided by each layer in OSI model? (6 marks)
- d. What are the similarities between OSI reference model and TCP/IP model? (6 marks)

Q4.

- a. List down three physical network components. Briefly explain them. (7 marks)
- b. Briefly describe some network applications. (6 marks)
- c. What are the classes of IP addressing? Briefly describe them. (6 marks)
- d. What are the differences between IPV4 addressing and IPV6 addressing types? (6 marks)