

The Open University of Sri Lanka

Master of Arts in Teacher Education
Final Examination 2009

CSE1177: Internet Technology

Duration: 2 Hours



Date: 13.07.2009

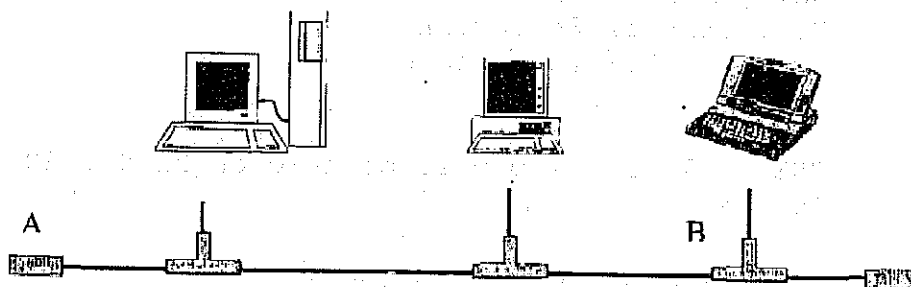
Time: 10.00 am -12.00 noon

Answer Four Questions only.

Q1.

- i. What is a computer network. Describe the advantages and disadvantages of computer networks.
- ii. What are the types of computer systems that can adapt, Star, Ring and Hierarchical network topologies?
- iii. Compare and contrast *Coaxial* and *Satellite link* communication media.

Q2.



- i. Use the above figure to answer questions a to c,
 - a. What are the components A and B?
 - b. What is the network topology used in the above network?
 - c. What are the limitations of the above network?

- ii. What do you understand by the term *node* in the context of computer networking?
- iii. Define the term *protocol* in the context of the Internet. Name the most commonly used protocol today for Internet communication.
- iv. Comparatively describe the concepts of parallel and serial transmissions.

Q3.

- i. By means of protocol, domain and filename explain what is an URL?
- ii. What are the protocol names and default port numbers to send Emails and receive emails?
- iii. "Nowadays electronic mail system is the most popular communication method than other communication methods" Do you agree with this statement? Explain briefly.
- iv. A simple email message is given bellow:

```
To: carl@yahoo.com
Cc: gaminiperera@ou.ac.lk
Bcc: skperera@ou.ac.lk
From: abskumara@yahoo.com
Data
Dear friends,
CSE 1177 CBT Exam will be held on 21.01. 2006
Thanks
Sk.
```

By using the above message, answer the following questions

- a. What is the email address of the sender?
- b. This email does not contain a subject; Write the message 'CSE 1177 OBT Exam' as the subject. In the correct place that it should appear.

Q4.

- i. Briefly explain the following.
 - a. Bridges
 - b. Routers
 - c. Hub
- ii. State a communication media that is not physical.
- iii. State the communication media which is most suitable for both indoor and outdoor networking.
- iv. Explain the function of a modem, stating the meaning of the abbreviation modem.

Q5.

- i) Explain why we need protocols for the Internet communication.
- ii) Comparatively, write a short note on the following services on The Internet.
 - Email
 - Ftp
 - Telnet
- iii) Briefly explain how TCP/IP enable the internet communication using packet terminology.

Q6.

- i) Describe the importance of Web technology in the context of education.
- ii) Write what is meant by the following domain name extensions.
 - a) .lk
 - b) .uk
 - c) .edu
 - d) .mil
- iii) Write short notes on *the history* of the Internet.
- iv) Describe the use of the Agent technology in the context of searching information on The Internet.

All Rights Reserved