



NATIONAL OPEN UNIVERSITY OF NIGERIA
14-16 AHMADU BELLO WAY, VICTORIA ISLAND LAGOS
SCHOOL OF *SCIENCE & TECHNOLOGY*
MAY/JUNE 2012 EXAMINATION

CIT 622: COMPUTER NETWORKS

INSTRUCTION(S): Answer Any Five Questions

- 1a. What is a network operating system?
- b. What does a network operating system provide?
- c. Explain the two major types of network operating systems

- 2a. Define Protocol.
- b.. Explain the key elements of a protocol.
- c. Compare and contrast the functions of Carrier Sense on Multi-Access Networks (CSMA) and Carrier Sense Multiple Access with Collision Detect (CSMA/CD).

2. Sketch the OSI model and describe the function of the layers with one sentence for each layer.

3. Discuss the components of LAN

- 4a. Explain IP addressing
- b. List the two IP addressing schemes
- c. What is addressing designed to achieve?

5. Outline eight of the key issues to be trashed out carefully before setting up computer network

- 6a. Explain network topology concept
- b. List five basic topologies
- c. What is the key disadvantage of a physically direct-wired LAN? Explain how a star-wired LAN remedies this disadvantage.

7. Briefly describe the characteristics of the OSI 7 layer model