

LAGOS CITY POLYTECHNIC, IKEJA
SCHOOL OF ENGINEERING AND APPLIED SCIENCE
DEPARTMENT OF COMPUTER SCIENCE
2016/2017 SEMESTER EXAMINATION

COURSE	TITLE:	DATA	COMMUNICATION
	AND NETWORK		NO OF QUESTION : 6
COURSE CODE:	COM 415		TIME ALLOWED: 2 HRS
FOR WHOM:	HND YR II CS		PT INSTRUCTIONS:
ANSWER ANY FOUR			

QUESTIONS

1. (a) List two advantages and two disadvantages of having international standards for network protocols.
 (b) Explain any four network topology
 (c) Describe briefly the OSI model.

2. (a) Briefly explain the architecture of a global system for mobil communication (GSM) network
 (b) Explain two transmission media each of wired and wireless technology.
 (c) Highlight four advantages of using the Internet.

3. (a) Describe network configurations.
 (b) Write short notes on the following:
 (i) Simplex (ii) Half duplex (iii) Full duplex
 (c) Describe any three switching techniques.

4. (a) What are the effects of the following parameters on the choice of network media
 (i) Cost (ii) Installation (iii) Bandwidth
 (vi) Attenuation (v) Electromagnetic interference
 (b) (i) What is routing? (ii) Describe two routing techniques.
 (c) Describe any four internetworking devices.

5. (a) Wireless networks are easy to install, which makes them inexpensive since installation costs usually far overshadow equipment costs. Nevertheless, they also have some disadvantages.
 Name four of these disadvantages and explain any two.
 (b) Explain briefly how network adapters work
 (c) Describe four application areas of network.

6. (a) Explain client/server model in a Network
 (b) (i) How will you explain congestion in a network?
 (ii) Describe any three congestion control algorithms
 (c) Discuss the Word Wide Web