



FOUNTAIN UNIVERSITY, OSOGBO.
DEPARTMENT OF MATHEMATICAL AND COMPUTER SCIENCES
SECOND SEMESTER EXAMINATION 2019/2020 SESSION

COURSE TITLE: INTRODUCTORY TO COMPUTER NETWORK
COURSE CODE: CPS108

UNIT: 2 UNITS
DURATION: 1½HRS
23/09/2020

INSTRUCTION: ATTEMPT QUESTION 1 AND ANY OTHER TWO (2) QUESTIONS.

1. (a) Enumerate the concept of computer networking. [5 Marks]
(b) Explain the 5 basic network application areas. [5 Marks]
(c) What are the key issues of computer network? [5 Marks]
(d) Explain the merits and demerits of 5 network topologies [10 Marks]
(e) What are the considerations for choosing the right topology? [5 Marks]
2. (a) Discuss the history of networking. [5 Marks]
(b) What are the problems faced with the early communication. [5 Marks]
(c) Explain the following terms: (i) Multiplexing (ii) Baseband (iii) Broadband [5 Marks]
3. Briefly discuss the following hardware components:
 - a. File Servers
 - b. Workstations
 - c. Network Interface Cards
 - d. Switches
 - e. Repeaters
 - f. Bridges
 - g. Router[2 Marks each]
4. (a) In networking, what does the term topology refer to? [5 Marks]
(b) Describe the geometric representations of computer network topology. [5 Marks]
(c) In the context of computer networking, discuss the term protocols with appropriate examples. [5 Marks]
5. (a) The Open Systems Interconnection (OSI) is standard design for computer networks communications involving at least 7 layers, each playing a specific role when applications are communicating over the net. Discuss. [10 Marks]
(b) Distinguish between OSI and TCP/IP model of network communication. [5 Marks]

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