

## COURSE CODE: CI1722 COURSE CREDIT: 3 COURSE TITLE: COMPUTER NETWORKS TIME ALLOWED: 3 HOURS INSTRUCTION: ANSWER QUESTION ONE (1) AND ANY OTHER THREE (3) QUESTIONS

## QUESTION

1a. Describe with the aid of relevant diagrams, any two (2) classes of network topology,<br/>highlighting the key benefit of each class.(9 marks)

1b) Briefly explain an ATM Network (6marks)

1c) Write a brief note on each of the following types of communication using examples to illustrate:

- i. Baseband Communication (3marks)
- ii. Broadband Communication (3marks)

1d. Give a brief explanation of the concept of 'Routers'. (4marks)

2a) Briefly describe the OSI Reference model and list all its layers in their proper order. (10marks)

2b) Write a short note on network topology (5marks)

- 3a) List and define the two types of Internet Control Message Protocol (ICMP) messages.(6marks)
- 3b) Write short notes on the following protocol:
  - (i) User Datagram Protocol (UDP) (3 marks)
  - (ii) HTTP (Hyper Text Transfer Protocol) (3 marks)
  - (iii) Data Link control (DLC) (3 marks)

4a Enumerate and explain the two types of query (6marks)

4b) Write a brief note on each of the following:

- i. Hub (2marks)
- ii. Router (2marks)
- 4c) State any five simple rules to follow when running a network cable (5 marks)

5a) Complete the Ethernet cable summary below: (6marks)

S/N	Specification	Cable Type	Maximum length (in meters)
1.	10BaseT		
2.	10Base2		
3.	10Base5		
4.	10BaseF		
5.	100BaseT		

## Click to download more NOUN PQ from NounGeeks.con

6. 100BaseTX
--------------

5b) Describe each of this Ethernet cabling types. (9marks)

6a) Discuss the following:

- a) Switches (4 marks)
- b) Repeaters (4 marks)
- c) Bridges (4 marks)

6b) State the benefits of the OSI model (3marks)