

NATIONAL OPEN UNIVERSITY OF NIGERIA University Village, 91 Cadastral Zone, Nnamdi Azikwe Expressway, Jabi, Abuja FACULTY OF SCIENCES 2023_1 POP EXAMINATION...

COURSE CODE: CIT 423

CREDIT: 2 Units TIME ALLOWED: 2½ Hours	
INSTRUCTION: Answer Question ONE (1) and any other TWO (2) Question	ons
QUESTION 1	2 1
a) Define Computer Network.	3 marks
b) Explain classifications of computer networks based on geographical covmarks	
c) Highlight few applications of computer network.	3 marks
d) What is the goal of setting-up a computer network?	3 marks
e) Itemize and explain two classifications of Transmission media.	4 marks
f) What is Token passing?	5 marks
g) Write short note on the following:	
i. Electronic mail.	
ii. World wide web (WWW)	
iii. File Transfer Protocol (FTP).	Cl-a
iv. Asynchronous Transfer Mode.	6 marks
QUESTION 2 a) With a well labelled diagram, describe Open System Interconnection (OSI) reference
	9 marks
model. b) Itemize six differences between OSI and TCP/IP reference model.	6 marks
b) Itemize six differences between OSI and Territ reference median	5 marks
c) Itemize five functions of a MODEM.	
QUESTION 3 a) With an appropriate diagram, explain the possible classifications of co	mpute network
a) With an appropriate diagram, explain the possible	
topologies. b) In a tabular form, list four differences between Hubs and switches.	6 marks
b) In a tabular form, fist four differences seemed. c) Itemize the activities involved in network administration.	6 marks
c) Itemize the activities involved in network	
THOMAS A	
QUESTION 4	3 marks
a) Compare bridges and router. b) Itemize the advantages small, fixed-sized cells. Exterior Gateway Routing Protections of Exterior Gateway Routing Protections.	4 marks
b) Itemize the advantages small, fixed-sized cells. c) State five metrics (conditions) of Exterior Gateway Routing Protection of Exteri	ocol (EGRP) to
determine the best route in a network.	
determine the best foute in a network.	8 marks

d) Explain bridges. Hence, itemize it's three purposes.

QUESTION 5

a) Explain the differences between Point-to-point and Broadcast network. (4 marks)

b) Explain six (6) parameters associated with Transmission Control Protocol (TCP) header.

marks)

c) What is the full meaning of the following standard organizations?

. ITU

ii. IEEE

iii. ISO

iv. VESA.

(4 marks)