



## NATIONAL OPEN UNIVERSITY OF NIGERIA University Village, 91 Cadastral Zone, Nnamdi Azikwe Expressway, Jabi, Abuja FACULTY OF SCIENCES 2023\_1 POP EXAMINATION<sub>20</sub>

COURSE CODE: CIT 423 COURSE TITLE: Computer Networks and Communication CREDIT: 2 Units TIME ALLOWED: 2<sup>1</sup>/<sub>2</sub> Hours INSTRUCTION: Answer Question ONE (1) and any other TWO (2) Questions

## **QUESTION 1**

a)	Define Computer Network.	3 marks
b)	Explain classifications of computer networks based on geographical covera marks	ige. 6
c)	Highlight few applications of computer network.	3 marks
,	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).	
	iv. Asynchronous Transfer Mode.	6 marks
a b	<ul> <li>ESTION 2</li> <li>With a well labelled diagram, describe Open System Interconnection (OSI) model.</li> <li>Itemize six differences between OSI and TCP/IP reference model.</li> <li>Itemize five functions of a MODEM.</li> </ul>	reference 9 marks 6 marks 5 marks
QUE	ESTION 3	
a	) With an appropriate diagram, explain the possible classifications of comput	
	topologies.	9 marks
	) In a tabular form, list four differences between Hubs and switches.	6 marks
С	) Itemize the activities involved in network administration.	6 marks
QUE	ESTION 4	
a	) Compare bridges and router.	3 marks
b	) Itemize the advantages small, fixed-sized cells.	4 marks
с	) State five metrics (conditions) of Exterior Gateway Routing Protocol (	EGRP) to
	determine the best route in a network.	5 marks
d	Explain bridges. Hence, itemize it's three purposes.	8 marks

## Click to the second more NOUN PQ from NounGeeks.con

marks)

- b) Explain six (6) parameters associated with Transmission Control Protocol (TCP) header. (12 marks)
- c) What is the full meaning of the following standard organizations?
  - i. **ITU**
  - ii. **IEEE**
  - iii. **ISO**
  - iv. VESA.

(4 marks)