

National Open University of Nigeria Plot 91, Cadastral Zone, Nnamdi Azikwe Express Way, Jabi – Abuja Faculty of Sciences 2023_1 POP EXAMINATION

Course Code: CIT305

Course Title: Networking and Communication Technology

Credit Unit: 3

Time Allowed: 3 Hours

Instruction: Answer question 1 and any other 3

Q1. (a) Briefly Explain the meaning of video-conference	(4 marks)
(b) Distinguish between Analog and Digital Signal	(6 marks)
(c) List five (5) uses of a video-conference	(10 marks)
(d) Mention and explain 2 types of wireless technologies	(5 marks)
	TOTAL: 25 Marks
Q2. (a) Explain what you understand by DSL	(5 marks)
(b) Mention three features of DLS	(3 marks)
(c) List five (5) advantages of using DLS	(5 marks)
(d) List two techniques of packet switching	(2marks)
	TOTAL: 15 Marks
Q3. (a) Define the following terminologies	
(i) SONETS	(1 marks)
(ii) Modem	(1marks)
(iii) Packet switching	(1marks)
(b) Explain in detail the full meaning of a Computer Networks	(4 marks)
(c) List and briefly explain four (4) uses of Computer Networks	(8 marks)
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Q4 (a) Mention seven (7) layers of OSI Model	(7 Marks)
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(b) What do you understand by the term Data Link?	(3 Marks)
(c) State Five (5) protocols that are defined by Data Link Layer	(5 Marks)
	TOTAL: 15 Marks

25 (a) (i) De	fine the term Wi-Fi	(3 Marks)
(ii) W	hat are the advantages of Phase-Shift Keying (PSK)	(2 Marks)
(b) List ar	d explain the TCP/IP Model	(5 Marks)
(c) States	the differences between Class A , B & Class C IP addresses?	(5 Marks)
		TOTAL: 15 Marks
26 (a) Explai	n how fiber optic medium is better than coaxial cable	(5 marks)
_ , ,	n how fiber optic medium is better than coaxial cable short note on the different types of impairment listed below:	,
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(b) Write	short note on the different types of impairment listed below:	.
(b) Write i.	short note on the different types of impairment listed below: Attenuation	(2 marks)