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

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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)
	Total: 15 Marks
Q4 (a) Mention seven (7) layers of OSI Model	(7 Marks)
(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

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(ii) What are the advantages of Phase-Shift Keying (PSK)	(2 Marks)
(b) List and explain the TCP/IP Model	(5 Marks)
(c) States the differences between Class A, B & Class C IP addresses?	(5 Marks)
	TOTAL: 15 Marks
$\mathbf{Q6}$ (a) Explain how fiber optic medium is better than coaxial cable	(5 marks)
(b) Write short note on the different types of impairment listed below:	
i. Attenuation	(2 marks)
ii. Delay distortion	(2 marks)
iii. Noise	(2 marks)
(c) Explain Time-Division Multiplexing (TDM).	(4 marks)