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NATIONAL OPEN UNIVERSITY OF NIGERIA University Village, 91 Cadastral Zone, Nnamdi Azikwe Expressway, Jabi, Abuja FACULTY OF SCIENCE DEPARTMENT OF COMPUTER SCIENCE

CIT 854: NETWORK PROGRAMMING AND DESIGN

Instruction: Answer Question (1) (22 marks) and any other four questions each carrying 12 marks **Time:** 2½ hours

- 1 (a) List and explain the criteria for network addressing (10 marks)
- b) Briefly describe the key elements of network management system? (8 marks)
- c) Enumerate reasons why UDP would be preferable to TCP and give examples of applications that are better suited for UDP in each case. (4 marks)
- 2a) State the critical role the network operating system (NOS) play in a networking architecture? (6 marks)
- b) Enumerate what you understand by "Network Management". State its functional areas (6 marks)
- 3a) Write short notes on User Datagram Protocol (UDP). (8 marks)
- b) Enumerate the features provided by the UDP datagram (4 marks)
- 4) Write short notes on the following network devices:
 - a) Repeater) 6 marks
 - b) Switches) 6 marks
- 5a) State and briefly describe any three routing algorithm attributes) 6 marks
- b) Briefly discuss Routers stating their special features (6 marks)
- 6a) What is Internet Protocol?) 2 marks
- b) State any five fields of the IP packet and their respective functions. (10 marks)
- 7a) Write short notes on User Datagram Protocol (UDP). (8 marks)
- b) Enumerate the features provided by the UDP datagram (4 marks)