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NATIONAL OPEN UNIVERSITY OF NIGERIA University Village, 91 Cadastral Zone, Nnamdi Azikwe Expressway, Jabi, Abuja FACULTY OF SCIENCES COMPUTER SCIENCE DEPARTMENT ... 2020_2 EXAMINATION

CIT 461 – Internet Architecture and Communication Credit: 3 units

TIME ALLOWED: 2½ Hours

INSTRUCTION: Answer Question 1 and any other FOUR (4) Questions

- 1. a) What is Internet Technology? (2½ marks)
 - b) How is information transmitted through the internet? (2½Marks)
 - c) Write short notes on the following technologies used for providing Internet access stating three characteristics of each.
 - i) Broadband Internet Connection (2 Marks)
 - ii) Dial-Up Connection 56K (11/2 Marks)
 - iii) ISDN (Integrated Services Digital Network) (11/2 Marks)
- d) Write short notes the following three protocols used in data transmission in the internet (7 Marks)
- e) List any 5 issues of concern with E business and an example of how the effect of these concerns can be mitigated. (7½ Marks)
- 2. a) What is WWW and its architecture? (3 Marks)
 - b) What are the components of Web architecture? (4 Marks)
 - c) How does dynamic host configuration protocol aid in network administration? (3 Marks)
 - d) What is the better way of sending data or information through the net? (2 Marks)
- 3. What do you understand by the following terms?
 - a) A Firewall (5 Marks)
 - b) DNS (7 Marks)
- **4.** a) Write short notes on three internetworking devices and state their location in the network architecture (**8 Marks**)
 - b) What are the three key parts to packet switching? (1 Marks)
 - c) i) What are Brouters? (2 Marks)
 - ii) What was the essence of developing Brouter? (1 Mark)

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- **5. a)** Briefly explain Data Encapsulation (**3 Marks**)
- b i) What is VPNs? (2 Marks)
 - ii) Describe the two ways that VPN can be configured? (4 Marks)
- c) i) What do you understand by the term tunnel? (2 Marks)
- ii) The term Tunnel is also referred to as what? (1 Mark)
- **6.** a) What is the use of encryption and decryption? (3 Marks)
 - b) Explain how it can be used to provide a secure e-business transaction system (4½ marks)
 - c) What is HTTPs? (2½ Marks)
 - d) What port does it use? (2 Marks)