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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 2021 EXAMINATIONS ...

CIT 461 – Internet Architecture and Communication

Credit: 3 units

TIME ALLOWED: 2½ Hours

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

QUESTIONS

- 1a) Briefly describe each of the following:
 - i) Internetworking. (2 marks)
 - ii) Internet Protocol. . (2 marks)
 - iii) Internet Browser.(2 marks)
 - iv) Internet Technology.(2 marks)
 - v) Internet Access.(2 marks)
- b) Explain the following E-business Security concerns:
 - i) Confidentiality
 - ii) Non-Repudiation
 - iii) Availability(6 marks)
 - c) Describe common header fields of e-mail

(6 marks)

- 2a) In tabular form, list six(6) domain names suffixes with their associated organizations(3 marks)
- 2b) Describe the main functions of Internet Protocol (3 Marks)
- 2c) Define Internet Control Message Protocol and highlight four (4) different types of messages its generates. (6 marks)
- 3a) TCP corresponds to the transport layer (Layer 4) of the OSI reference model, describe three
- (3) services TCP provides in an IP environment.(6 marks)
- 3b) Briefly discuss User Datagram Protocol

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- 3c) State four (4) application-layer protocols that UDP supports
- 4a) Describe the following network devices
 - i. Repeater
 - ii. Router(5 marks)
- 4b) List and explain two (2) types of Packet Switching Systems (5 marks)
- 4c) Enumerate four (4) e-business security solutions (2 marks)
- 5a) Most Web browsers share the same user interface features, state **six** (**6**) of these features. (**6marks**)
- 5b) Connectivity supports company's business in a number of ways, state four (4) reasons why company uses the Internet. (4 marks)
- 5c) Highlight **typical issues** that need to be considered before internet connections can be implemented (**2 marks**)
- 6a) The Internet Service Provider (ISP) has a major influence on the effectiveness of your Internet connectivity design and implementation, Highlight the factors to be considered well selecting ISP. (6marks)
- 6b) Describe two types of internet connection.(4 marks)
- 6c) For large organizations a T1 line can be used to connect the whole office to the Internet, state four (4) main characteristics of T1 line. (4 marks)