

Federal University of Technology, Minna
School of Information and Communication Technology
Department of Information and Media Technology.
First semester examination 2012/2013 session

Course Title : Electronic Commerce. **Code:** IMT 312, **Time Allow:** 2Hours.

Instruction: Attempt any four questions.

1(a) With appropriate examples, what do you understand by the terms: (i) B2B (ii) B2C (iii) B2G (iv) Mobile (M)-commerce (v) C2C transaction. **(5 marks)**

(b) Advance at least five reasons why e-commerce has not been very successful in Nigeria? **(5 marks)**

(c) In some cases, business processes use traditional commerce activities very effectively, and technology cannot improve upon them, justify. **(5 marks)**

(2). IMT Department has an upcoming e-commerce website in Gidan Kwanu. The Department wants to provide a registration form on their website, where the customers can login and provide their personal, and item details. The form should contain the following fields:

Login Detail: Username, password, Re-enter password. ①

Personal Information Details: First Name, Last Name, Email and Gender. ①

Item Details: CD, VCD, Software, eBooks and laptop (the customer should be able to select multiple items). ②

The form should contain buttons to submit or reset value entered in the various field. The following conditions must be enforced:.

(i) The login name, password, first Name and Last name must not be empty ⑤+1

(ii) The value entered in the password and re-entered password should be the same. **(15 marks)** ⑤

3(a) What do you understand by the term "broadcast storm"? **(2 marks)**

(b) Which networking device would you use to control the phenomenon in 3(a) and how does it do it? **(2 marks)**

(c) Assume you have a single file on your website, such that, when added to graphics files, it sum to 1 MB in size. If an average of 20 persons request the file per day, how much bandwidth is your site consuming in a month, assuming we have 28 days in a month? **(2 marks)**

(d) Explain any four types of topology with their basic features. **(9 marks)**

4 (a) Explain (i) Cryptography (ii) Encryption (iii) Decryption. **(3 marks)**

(b) Using Caesar cipher substitute, encrypt the text "*Behold I did it*". **(1mark)**

(c) Public key algorithm (symmetric) is easier to implement, however, it is hardly use in the real world. Give reason(s). **(3 marks)**

(d) Explain any four networking devices and their functions in a network. **(8 marks)**.

5(a) Compare and contrast SSL and SET protocol. **(6 marks)**.

(b) How can you determine whether an e-commerce site is secured with SSL? **(1 mark)**.

(c) How does digital signature work? **(3 marks)**.

(d) Write short notes on the following: (i) Electronic wallet (ii) payment gateway (iii) Attenuation (iv) Distributed Denial of service (v) smart card. 1 mark each **(5 marks)**

6(a) Justify the need for an e-commerce laws? **(2 marks)**.

(b) Give five reasons that necessitate the e-commerce laws. **(5 marks)**.

(ci) What is the relationship between DTD and HTML? **(2 marks)**.

(cii) list the different DTDs use for HTML documents that is available online . **(1 mark)**.

(d) In your opinion, what are the advantages of e-commerce to the society? **(5 marks)**.

GOOD LUCK