



*(Knowledge for Development)*

**KIBABII UNIVERSITY**

**(KIBU)**

**UNIVERSITY EXAMINATIONS  
2020/2021 ACADEMIC YEAR**

**SPECIAL/SUPPLEMENTARY EXAMINATIONS  
YEAR FOUR SEMESTER ONE EXAMINATIONS**

**FOR THE DEGREE OF  
BACHELORS OF SCIENCE  
(INFORMATION TECHNOLOGY)**

**COURSE CODE : BIT 412**

**COURSE TITLE : ELECTRONIC COMMERCE**

**DATE: 12/01/2022**

**TIME: 11.00 A.M – 1.00 P.M**

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**INSTRUCTIONS TO CANDIDATES**

**ANSWER QUESTIONS ONE AND ANY OTHER TWO**

### QUESTION ONE (COMPULSORY) [30 MARKS]

- a. Define the following terms. [4 Marks]
- Electronic Data Interchange (EDI)
  - Electronic-cash
  - Digital signature
  - Electronic Fund Transfer (EFT)
- b. Distinguish between digital signature and digital certificate. [2 Marks]
- c. Identify the types of security features used in client server types of network. [4 Marks]
- d. Describe the components of Information Super Highway Infrastructure. [6 Marks]
- e. Identify the essential components of a 3-tier client server architecture. [6 Marks]
- f. Compare and contrast e-commerce and e-business. [2 Marks]
- g. Describe any three methods of payment for online consumers. [6 Marks]

### QUESTION TWO [20 MARKS]

- a. i. Explain the differences between terms intranet and extranet [2 Marks]
- ii. Explain the role the Internet, Intranet and Extranet each plays in e-business. [6 Marks]
- b. Compare and contrast two-tier and three-tier client/server architecture. [4 Marks]
- c. State two factors that led to the failure of early years of e-commerce [2 Marks]
- d. Describe the various components in an Electronic Payment System. [6 Marks]

### QUESTION THREE [20 MARKS]

- a. Describe any five unique features of e-commerce technology. [10 Marks]
- b. Discuss two benefits of universal standards. [4 Marks]
- c. Compare e-commerce and traditional transactions in terms of richness. [2 Marks]
- d. Using suitable local examples, explain the difference between B2B and B2C e-commerce [4 Marks]

### QUESTION FOUR [20 MARKS]

- a. Compare and contrast the Internet and the Web with other technologies that have changed commerce in the past. [4 Marks]
- b. Describe the three different stages in the evolution of e-commerce. [6 Marks]
- c. World Wide Web has had a significant role in the field of e-commerce. Discuss. [2 Marks]
- d. i. What is non-repudiation? [1 Mark]
- ii Explain how non-repudiation can be achieved in designing e-cash based system. [3 Marks]
- e. Discuss any two advantages of client/server architecture. [4 Marks]

### QUESTION FIVE [20 MARKS]

- a. Discuss the risks involved in Electronic Payment Systems. [6 Marks]
- b. Identify any four revenue models used by e-commerce firms. [4 Marks]
- c. i. Explain how e-commerce is used in home banking. [2 Marks]
- ii. Discuss the advantages of home banking. [2 Marks]
- d. Describe Secure Electronic Transaction (SET). [2 Marks]
- e. Explain two factors to consider in designing a successful website. [4 Marks]