

JARAMOGI OGINGA ODINGA UNIVERSITY OF SCIENCE AND TECHNOLOGY SCHOOL OF INFORMATICS AND INNOVATIVE SYSTEMS

UNIVERSITY EXAMINATION FOR THE DEGREE OF BACHELOR OF EDUCATION SCIENCE

MAIN CAMPUS

3RD YEAR 2ND SEMESTER 2017/2018 ACADEMIC YEAR

COURSE CODE: SCS 322

COURSE TITLE: ELECTRONIC COMMERCE

EXAM VENUE: STREAM:BED SCIENCE

DATE: EXAM SESSION:

TIME: 2.00 HOURS

INSTRUCTIONS:

- 1. Answer Question 1 in Section A (Compulsory) and ANY other two questions in Section B
- 2. Candidates are advised not to write on the question paper
- 3. Candidates must hand in their answer booklets to the invigilator while in the examination room

QUESTION 1 (30 MARKS)

a)	State and explain	THREE major ap	plications of E-Commerce	(6 Marks)
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b) The Internet was designed around two protocol standards the TCP and the IP.

Define (i) IP address

(ii) TCP (2 Marks)

c) List down two benefits of Electronic Data Interchange (EDI) (2 Marks)

d) Briefly discuss the following:

e) SMTP and FTP. (5 Marks)

f) IP-Internet protocol and HTTPS-Secure HTTP

(4 mks)

g) Digital Certificate. (2 mks)

h) E – Procurement (2 Marks)

i) What services does on-line banking provide for an Internet user? (3 Marks)

j) Name the eight key ingredients of an E-commerce business model (4 Marks)

QUESTION 2 (20 MARKS)

a) B2B and B2C models are examples of e-commerce models, using proper examples differenciate between the two. (4 Marks)

b) Briefly explain how SSL protocol can be used to secure an e-commerce transaction.

(6 Marks)

c) Compare and contrast the traditional business with electronic commerce in an electronics shop business. (10 Marks)

QUESTION 3 (20 MARKS)

a) Explain the different steps involved in the development of an e-commerce web site.

(10 mks)

b) Differentiate between internet and intranet

(4 mks)

c) State six advantages of intranet?

(6 mks)

QUESTION 4 (20 MARKS)

a) Describe the following potential security attacks on an E-Commerce system

(10 Marks)

- (i) Denial of service
- (ii) Buffer Overflow
- (iii) SQL Injection
- (iv) Phishing Scams
- (v) Spamming
- b) State and explain **FIVE** security measures that can be used to counter the attacks named in (a) above (10 Marks)

QUESTION 5 (20 MARKS)

- a) E-Commerce and e-banking are closely related systems with interactions. Discuss (5 Marks)
- b) Payment technology is an important part of of the capital flow in the development of e-commerce. Its development determines the fate of e-commerce directly. Discuss

(5 Marks)

c) The internet as a key driver for e-commerce is highly dependent on the TCP/IP protocol. Contrast between the OSI and TCP/IP model.
 (10 Marks)