



SOUTH EASTERN KENYA UNIVERSITY

UNIVERSITY EXAMINATIONS 2017/2018

FIRST SEMESTER EXAMINATION FOR THE DEGREE OF BACHELOR OF COMMERCE

SCI 201: SYSTEMS ANALYSIS AND DESIGN

(Machakos & Wote Campuses)

DATE: 11TH DECEMBER, 2017

TIME: 10.30 - 12.30 PM

INSTRUCTIONS TO CANDIDATES

- a) Answer ALL questions from section A(Compulsory)
 - b) Answer ANY TWO questions from section B
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SECTION A (30 Marks) - Compulsory

Question 1 (Compulsory)

- a) Differentiate between Decision Support Systems and Management Information Systems. (3 Marks)
- b) What is involved in system development? (2 marks)
- c) Give five goals of information security. (5 Marks)
- d) Give five key circumstances that necessitate the development of new Information systems. (5 marks)
- e) Draw a well-labelled diagram that shows a system that is controlled through feedback. (3 marks)
- f) Give any five objectives of fact-finding (5 Marks)
- g) A feasibility study is a study carried out to establish the costs & benefits of the proposed new system. How does it achieve this? (2 Marks)
- h) Explain the role of systems analyst in System Development Life Cycle (5 Marks)

SECTION B (40 Marks) – Answer ANY two questions

Question 2

- a) Describe the seven stages of system development life cycle in a diagram. (10 Marks)
- b) Explain five key characteristics of an Information System. (5 Marks)
- c) Security is often achieved by means of several strategies usually undertaken simultaneously or used in combination with one another. Give and explain five specialized areas of security. (5 Marks)

Question 3

- a) Define a system (2 marks)
- b) Systems can be described as either Soft or Hard. With examples explain. (4 marks)
- c) All systems have some common characteristics. Give and explain any five of these characteristics. (10 marks)
- d) In requirements specification, the system analyst must come up with detailed requirements for the new system. Which four areas are considered? (4 marks)

Question 4

- a) Distinguish between open and closed systems. (4 Marks)
- b) Define an information system. (2 Marks)
- c) Briefly explain the three main theories to system development (6 Marks)
- d) The feasibility of a system is assessed in 4 ways. Discuss (4 Marks)
- e) Give circumstances in which a questionnaire is used for gathering information. (4 Marks)