



KENYATTA UNIVERSITY
EXAMINATION FOR THE DEGREE OF BACHELOR OF SCIENCE
SCO 100: FUNDAMENTALS OF COMPUTING

2ND SEMESTER 2023/2024

TIME: 2 HOURS

INSTRUCTIONS:

Answer Question One (Compulsory) and any other Two questions

Question One

- a) Differentiate between hardware and software. Give suitable examples. (2 marks)
- b) Describe the components of a computer system. (4 marks)
- c) State two examples of word processor software (2 marks)
- d) Identify two sources of computer viruses hence mention three preventive measures against viruses (5 marks)
- e) State and describe the first four generations of computers and the technology behind them. (6 marks)
- g) Describe the role played by the following devices in computing (5 marks)
 - i) Joy stick
 - ii) Light pen
 - iii) Webcam
 - iv) Switch
 - v) Modem
- g) Differentiate between RAM and Rom. (4 marks)

- h) How do the following relate (2 marks) marks)
- i) Webserver
 - ii) World Wide Web

Question Two

- a) Define the following terms as used in spreadsheets. (3 marks)
- i) Cell
 - ii) Workbook
 - iii) Legend
- b) Discuss the effects of adapting use of computers in an organization (5 marks)
- c) Briefly explain four functions of an operating system (4 marks)
- d) Mention three factors you would consider when buying a laptop (3 marks)
- e) State and explain any five data transmission media (5 marks)

Question Three

- a) Describe three principles of computer data security requirement (6 marks)
- b) Define the following computer crimes (4 marks)
- i) Hacking
 - ii) Piracy
 - iii) Phishing
 - iv) Fraud
- c) Give any four precautionary measures considered to ensure security of computers in a computer laboratory. (4 marks)
- d) Describe three types of printers (6 marks)

Question Four

- a) Differentiate between absolute referencing and relative referencing as used in Ms-excel. Illustrate your answer with a suitable example. (6 marks)
- b) State and explain the role of any three registers found in a computer processor. (6 marks)
- c) Explain three contributions of the emergence of the internet to the banking sector (6 marks)
- d) Mention two ways one can get connected to the internet (2 marks)

Question Five

- a) State two parts of the Central Processing unit (CPU) and mention one function of each. (4 marks)
- b) Explain the difference between system software and application programs. Give an example in each case. (4 marks)
- c) Mention three advantages and three disadvantages of computers (6 marks)
- d) Explain the term virtual memory as used in computing (2 marks)
- e) Current trends in computing have adapted Artificial intelligence as a technology to enable performance of various tasks in a different manner. Mentions four applications of artificial intelligence in the world today. (4 marks)