



The Co-operative University of Kenya

END OF SEMESTER EXAMINATION DECEMBER-2016

**EXAMINATION FOR THE DEGREE OF BACHELOR OF CO-OPERATIVE
BUSINESS
(BCOM YR 1 SEM 1)**

UNIT CODE: HCOB 2106

UNIT TITLE: FUNDAMENTALS OF COMPUTER SYSTEMS

DATE: 8TH DECEMBER, 2016

TIME: 9:00 AM – 11:00 AM

INSTRUCTIONS:

- Answer question **ONE (compulsory)** and any other **TWO** questions

QUESTION ONE

- (a) Identify TWO characteristics of:
 - i. First generation computers (2 marks)
 - ii. Fifth generation computers (2 marks)
- (b) Distinguish between binary number system and hexadecimal number (2 marks)
- (c) Convert the following decimal numbers to their binary equivalent (2 marks)
 - i. 76_{10}
 - ii. 24_{10}
- (d) ABC Company Ltd intends to embrace information communication technology (ICT)
Outline TWO benefits the company would achieve from this (4 marks)
- (e) Outline three criteria used to classify computers giving an example in each case (6 marks)
- (f) Distinguish between operating system and application software (4 marks)
- (g) Explain why computer literacy is vital to success in today's business (4 marks)
- (h) Define the term data backup and state its importance (2 marks)

QUESTION TWO

- (a) Highlight FOUR factors that determine the processing powers of a computer (4 marks)
- (b) Outline TWO advantages of tailor-made software (2 marks)
- (c) Briefly discuss THREE factors to be considered when selecting computer software (6 marks)
- (d) Explain any FOUR computer security threats. For each of the threat outline a security measure against the threat (8 marks)

QUESTION THREE

- (a) Operating system is the most important system software in a computer system.
Explain in details the typical functions of the operating system (10 marks)
- (b) Outline TWO network devices that are used in setting up a local area network (4 marks)
- (c) Highlight TWO benefits of using optics as data transmission media (2 marks)
- (d) Explain TWO advantages of a setting up a LAV (4 marks)

QUESTION FOUR

- (a) Distinguish between the following terms:
 - i. Intranet and extranet (2 marks)
 - ii. Internet browser and search engine (2 marks)
- (b) Define the term cloud computing as used in ICT (2 marks)
- (c) Explain FOUR negative impact of information communication technology (ICT) in the society (8 marks)
- (d) Suggest areas that may need urgent computerization in a business organization support our answers with an explanation for each case (6 marks)

QUESTION FIVE

- (a) Distinguish between a server and a client as used in computer networks (4 marks)
- (b) Highlight FIVE benefits of the internet to a business organization (10 marks)
- (c) Discuss THREE methods used to restrict unauthorized access to computer systems (6 marks)