



# THE CATHOLIC UNIVERSITY OF EASTERN AFRICA

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**MTIHANI WA MWISHO WA MUHULA**

**JANUARI - APRILI 2019**

**KITIVO CHA SANAA NA SAYANSI YA KIJAMII**

**IDARA YA KISWAHILI**

**REGULAR PROGRAMME**

**KIM 322: COMPUTER APPLICATION**

**Tarehe: APRILI 2019**

**Muda: Saa Mbili**

**Maagizo: Jibu swali la KWANZA na Mengine MAWILI**

- Q1. a) Differentiate the following terms **(6 marks)**
- i) Volatile from Non-volatile memory
  - ii) Application from System software
  - iii) RAM and ROM
- b) State any **THREE** major characteristics of first computer generation **(3Marks)**
- c) Explain the classification of computers based on **purpose** **(4Marks)**
- d) You have a pen drive that is 1GB(Gigabyte) in size, determine how many mp3 files, each 2.5MB(Megabyte) can be stored in your pen drive (show your working) **(2Marks)**
- e) Identify any **TWO** output devices and **TWO** input devices stating the use of each **(4Marks)**
- f) Highlight **FOUR** key differences between primary and secondary storage devices **(4Marks)**
- g) Outline **TWO** benefits of computer networking in an organization **(2 marks)**

- h) Describe any **TWO** benefits that a student can acquire by using the internet. (2 marks)
- i) State **THREE** areas the government can implement the use of computers in serving its citizens. (3 marks)
- Q2. A communication student from Catholic University have arranged for a talk on “EFFICIENT LEARNING THROUGH INTERGRATION OF ICT TECHNOLOGY” targeting primary and secondary school teachers and administrators around the university vicinity.
- a) The computers will be installed with an Operating System. Explain any **THREE** functions of the operating system. (6 Marks)
- b) Explain the functions of any **THREE** networking devices the colleges and schools would use when setting up a connection/network (6 Marks)
- c) Describe **FOUR** ways in which students can be negatively impacted by the internet and recommend ways in which the schools can prevent these impacts. (4 Marks)
- d) Highlight **FOUR** major factors that communication students should advice the colleges and schools to consider before purchasing of printers for use (4Marks)
- Q3. a) Propose a topology for these schools to implement describing its design, advantages and disadvantages (6Marks)
- b) Explain the functions/use of any **THREE** application software that you would recommend the schools to install in their computers (3 Marks)
- c) List **THREE** ways the schools can protect their computers against viruses (3 Marks)
- d) Highlight **FOUR** benefits that ACS students should use in persuading these schools to adopt the use of emails in communication with parents as opposed to the current use of traditional(postal) mails (4 Marks)
- Q4. a) Describe **THREE** ways of testing software. (6 marks)
- b) State **FOUR** component requirement need to connect a network. (2 marks)
- c) Discuss any **TWO** factor that a bandwidth in a network (4 marks)

- d) State **TWO** major characteristics of a computer. (2 marks)
- e) Critique the following statement “internet information is basis of knowledge development” (1 mark)
- Q5. a) Attempt the followings;
- i) Define MICR. (2 marks)
  - ii) State **TWO** types of monitor (2 marks)
  - iii) Bespoke software (2 marks)
  - iv) \_\_\_ devices convert typed and, in some cases, handwritten data into electronic input (1 mark)
- b) During a class debate on computer skills, Students agreed on software factors. Evaluate any **TWO** factors to be considered when purchasing a software (2 marks)
- c) Briefly explain **TWO** commands you can use to check a network protocol (2 marks)
- d) Explain **TWO** ways of protecting and maintaining your peripheral devices (4 marks)

**\*MWISHO\***