Introduction to Computer Systems (MISC 116) (BBIT 111) (CISY 101) 1ST TRIMESTER 2015

**KENYA METHODIST UNIVERSITY**

**END OF 1'***st '***TRIMESTER 2015 (FT) EXAMINATION**

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| **FACULTY** |  | : | COMPUTING & INFORMATICS | |
| **DEPARTMENT** | | | : | COMPUTER SCIENCE |
| **UNIT CODE** |  | : | MISC 116/BBIT 111/CISY 101 | |
| **UNIT TITLE** | | | : | INTRODUCTION TO INFORMATION SYSTEM |
| **TIME** |  |  | : | 2 HOURS |

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**INSTRUCTIONS**

* *Answer question One and any other Two questions.*

**Question One**

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| * State four benefits of using information communication technologies in organizations. | (4 marks) |
| * Define the term ’back up’ and explain why it is necessary in a computer based environment. | (3 marks) |
| * Explain the difference between impact printers and non-impact printers. Give one example in each category. | (4 marks) |

* What is the role of the following devices in the computer system?
* Motherboard
* Memory
* Modem

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| * Network interface card (NIC) | (4 marks) |
| * Explain any four properties of information that make it a valuable tool for decision making. | (4 marks) |

* There are many categories of information systems. Describe the following types:

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| * Transaction Processing Systems | (3 marks) |
| * Decision Support Systems | (3 marks) |
| * State and explain five functions of operating systems. | (5 marks) |

**Question Two**

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| * Discuss the different classifications of computers based on the age of the technology used. | (10 marks) | | |
| * State and explain five negative impacts of computers to the society. |  |  | (10 marks) |

**Question Three**

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| * Describe the term computer architecture. Provide a diagram to support you answer. | (10 marks) | | |
| * What is the virtual memory? State four benefits of virtual memory. |  |  | (5 marks) |
| * State the factors that influence the performance of the CPU. | (5 marks) | | |

**Question Four**

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| * Describe the different topologies that can be used to implement computer networks. | (10 marks) | |
| * State the purpose of protocols in a data communication environment. |  | (5 marks) |
| * State the security mechanisms that can be used in an organization to guard against data and information. | (5 marks) | |

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