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

|  |  |
| --- | --- |
| * 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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