**KENYA METHODIST UNIVERSITY**

**END OF 2ND TRIMESTER 2012 (EVENING) EXAMINATIONS**

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| **FACULTY** |   | : | COMPUTING & INFORMATICS |
| **DEPARTMENT** | : | COMPUTER SCIENCE & BUSINESS INFORMATION |
| **UNIT CODE** |   | : | DBIT 120/DCIS 101/CISY 101 |
| **UNIT TITLE** | : | INTRODUCTION TO COMPUTER SYSTEMS |
| **TIME** |   |   | : | 2 HOURS |

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**Question One (30 Marks)**

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| * Explain what is a computer system.
 |   |   |   |   | (3 Marks |

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| * Discuss FOUR different application software available and give heir functions.
 |   |   |   |   |   |   |   |   | (12 Marks) |

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| * Discuss the types of operating systems and FOUR functions of operating systems.
 |   |   |   |   |   |   |   |   |   | (9 Marks) |

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| * Discuss how the following document manipulation can be done:
 | (6 Marks) |

* Copying a file
* Deleting the file
* Renaming a file

**Question Two (20 Marks)**

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| * Describe and draw diagrams to illustrate FOUR different network topologies.
 |   |   |   |   |   |   |   |   | (6 Marks) |

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| * State ONE advantage and disadvantage of the topology described in Question Two Part (i).
 |   |   |   |   |   |   | (4 Marks) |

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| * There are ten employees in a local estate agent’s office. Each employee uses a networked PC on a Local Area Network (LAN). Give TWO benefits to the office of using a network rather than stand-alone PCs.
 | (2 Marks) |

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| * Describe THREE different types of network.
 |   |   | (3 Marks) |

**Question Three (20 Marks)**

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| * Explain the difference between data and information.
 |   | (2 Marks) |

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| * Explain the concept of how data generated is converted to information by a computer system. Use a diagram to explain your explanation.
 | (8 Marks) |

* Differentiate between a client /server and stand alone computer. (3 Marks)

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| * Describe the following signal transmissions mechanism.
 |   | (2 Marks) |

* Baseband
* Broadband

**Question Four (20 Marks)**

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| * Describe THREE advantages and limitations of computer system.
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(6 Marks)

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| * Draw a block diagram of computer system.
 |   |   |   | (4 Marks) |
| * Discuss the function of different units of computer systems.
 | (5 Marks) |