FUNDAMENTALS OF INFORMATION SYSTEMS (MISC 116) (BBIT 111) (COMP 101) (CISY 101) (DBIT 120) (DCIS 101) 3RD TRIMESTER 2015

**KENYA METHODIST UNIVERSITY**

**END OF 3'***RD '***TRIMESTER 2015 (PT) EXAMINATION**

|  |  |  |  |
| --- | --- | --- | --- |
| **FACULTY** |  | : | COMPUTING & INFORMATICS |
| **DEPARTMENT** | | : | COMPUTER SCIENCE |
| **UNIT CODE** |  | : | BBIT 111/MISC 116/COMP 101/DBIT 128/ |

**DCIS 101**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **UNIT TITLE** | | | : | FUNDAMENTALS OF INFORMATION SYSTEMS |
| **TIME** |  |  | : | 2 HOURS |

|  |
| --- |
|  |

**INSTRUCTIONS**

* *Answer question one and any other two questions.*

**Question One**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| * Explain any five major limitations of manual systems for processing business transactions. | | | | | | |  |  |  |  |  |  | (5 marks) |
| * Using relevant examples, distinguish between data and information. |  |  |  |  |  |  |  |  |  |  |  |  | (3 Marks) |
| * Explain how transaction processing systems differs from management information system | | | | | |  |  |  |  |  |  |  | (8 Marks) |
| * Highlight any four factors that determine the input method. | | | | | | | | | | | | | (4 marks) |

**Question Two**

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| * Distinguish between RAM and ROM in terms of their purpose or function. |  |  |  |  |  |  |  |  |  |  |  | (4 Marks) |
| * Identify and describe any four common reasons for losing data in computer-based information systems. | | | | | |  |  |  |  |  |  | (8 marks) |
| * Explain any four benefits any firm is likely to attain in use of expert systems. | | |  |  |  |  |  |  |  |  |  | (8 Marks) |

**Question Three**

* Differentiate between the following terms:

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| * Hardware and software | | | | | | |  |  |  |  |  | (2 marks) |
| * Application software and systan system | | | | | | | | |  |  |  | (2 Marks) |
| * Bit and byte | | | | |  |  |  |  |  |  |  | (2 Marks) |
| * Describe three major factors that may affect the performance of a computer. |  |  |  |  |  |  |  |  |  |  |  | (6 Marks) |
| * Using well labeled diagram, distinguish between bus, star and Ring network topologies. | | | |  |  |  |  |  |  |  |  | (8 marks) |

**Question Four**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| * Explain any four functions of an operating system. | | | |  |  | (8 Marks) |
| * A software engineer requires a range of software utilities. Explain the usefulness of any of three such utilities. | | |  |  |  | (6 Marks) |
| * Explain any four components of an information system. |  | (6 marks) |  |  |  |  |

[Categories](http://online.kemu.ac.ke/kemuwiki/index.php?title=Special:Categories): [FUNDAMENTALS OF INFORMATION SYSTEMS](http://online.kemu.ac.ke/kemuwiki/index.php?title=Category:FUNDAMENTALS_OF_INFORMATION_SYSTEMS&action=edit&redlink=1) | [(MISC 116)](http://online.kemu.ac.ke/kemuwiki/index.php?title=Category:(MISC_116)&action=edit&redlink=1) | [(BBIT 111)](http://online.kemu.ac.ke/kemuwiki/index.php?title=Category:(BBIT_111)&action=edit&redlink=1) | [(COMP 101)](http://online.kemu.ac.ke/kemuwiki/index.php?title=Category:(COMP_101)&action=edit&redlink=1) | [(CISY 101)](http://online.kemu.ac.ke/kemuwiki/index.php?title=Category:(CISY_101)&action=edit&redlink=1) | [(DBIT 120)](http://online.kemu.ac.ke/kemuwiki/index.php?title=Category:(DBIT_120)&action=edit&redlink=1) | [(DCIS 101)](http://online.kemu.ac.ke/kemuwiki/index.php?title=Category:(DCIS_101)&action=edit&redlink=1) | [3RD TRIMESTER 2015](http://online.kemu.ac.ke/kemuwiki/index.php?title=Category:3RD_TRIMESTER_2015&action=edit&redlink=1)