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**University Examinations 2014/2015**

STAGE I EXAMINATIONS FOR CERTIFICATE/ DIPLOMA IN INFORMATION TECHNOLOGY

**DIT 0101: INTRODUCTION TO COMPUTERS**

**DATE: DECEMBER 2014 TIME: 1**$^{1}/\_{2}$ **HOURS**

**INSTRUCTIONS:** *Answer question* ***one*** *and any other* ***two*** *questions*

**QUESTION ONE (30 MARKS)**

1. Define the following terms; (3 marks)
2. Operating system
3. Computer security
4. Virus
5. Differentiate between the following terms: (4 marks)
6. RAM and ROM
7. Hardcopy and softcopy output devices
8. Briefly describe the three types of computer instructions (6 marks)
9. Describe one functions for each of the following elements of the CPU (3 marks)
10. ALU
11. CU
12. Main memory
13. Differentiate between application software and system software giving an example of each. (5 marks)
14. A computer is a system. Describe any three elements that make up this system. z

(6 marks)

1. Differentiate between main memory and secondary storage (3 marks)

**QUESTION TWO (15 MARKS)**

1. Convert the following (4 marks)
2. 47.5410 to binary
3. 100111102 to decimal
4. Outline any four CPU registers (2 marks)
5. Explain three preventive measures for viruses (6 marks)
6. Outline the functions of Bios (3 marks)

**QUESTION THREE (15 MARKS)**

1. Explain four methods of acquiring a computer (4 marks)
2. Explain applications of computers in the following areas (6 marks)
3. Banks
4. Education
5. Hospital
6. Explain three factors to consider when choosing an operating system (5 marks)

**QUESTION FOUR (15 MARKS)**

1. Discuss any three application softwares (6 marks)
2. (i) Mention any five components of a computer network (5 marks)

(ii) Describe two advantages of a computer networks (4 marks)

**QUESTION IFVE (15 MARKS)**

1. Briefly describe any five functions of an operating system (5 marks)
2. Discuss the criteria used to categorize computers. Give examples for each criteria. (10 marks)