

**W1-2-60-1-6**

JOMO KENYATTA UNIVERSITY OF AGRICULTURE AND TECHNOLOGY

# **UNIVERSITY EXAMINATIONS 2016/2017**

FIRST YEAR SECOND SEMESTER EXAMINATION FOR THE DIPLOMA IN INFORMATION TECHNOLOGY

**DIT 0205 : PRINCIPLES OF COMPUTER AND MAINTENANCE**

**DATE: APRIL 2017 TIME: 1.30 HOURS**

**INSTRUCTIONS:**

**ANSWER QUESTION ONE [COMPULSORY] AND ANY OTHER TWO QUESTIONS**

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**QUESTION ONE [30 MARKS]**

1. Write in full the following abbreviations [6 marks]
2. MBR
3. GPT
4. NTFS
5. BSOD
6. DDR
7. DIMM
8. State the THREE main form factors of power suppliers [3 marks]
9. Define a motherboard and discuss EIGHT components of a mother board [10 marks]
10. Discuss TWO main methods of cooling a CPU [4 marks]
11. Differentiate between the following [7 marks]
12. Preventive maintenance and corrective maintenance
13. SDRAM and DDR
14. 32-bit processor and 64-bit processor

**QUESTION TWO [20 MARKS]**

1. State and explain the different types of motherboards [6 marks]
2. State and explain the TWO main versions of DDR [4 marks]
3. Discuss the missing NTDLR and missing boot in and provide possible solutions to fix this [10 marks]

**QUESTION THREE [20 MARKS]**

1. Discuss the boot up process [10 marks]
2. Elaborate how a power supply works in a computer [4 marks]
3. State and explain the common features in windows operating systems. [6 marks]

**QUESTION FOUR [20 MARKS]**

1. Using a well labeled diagram discuss the different parts of a disk [6 marks]
2. Differentiate between primary partition and extended partition [4 marks]
3. State and explain possible solutions to problems that may occur when using a computer [10 marks]

**QUESTION FIVE [20 MARKS]**

1. Discuss five Microsoft windows 7 editions [10 marks]
2. Briefly explain the common features in windows operating system [4 marks]
3. Briefly discuss THREE forms of virus [6 marks]