**NAIROBI INSTITUTE OF BUSINESS STUDIES**

**DEPARTMENT OF COMPUTER SCIENCE**

**DIPLOMA IN COMPUTER ENGINEERING**

**(LEVEL 4)**

**END TERM EXAMINATION– MARCH 2015**

**TIME ALLOWED: 3 HOURS**

**THE COMPUTER**

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| **INSTRUCTIONS:**1. Answer **ALL the Seven questions.**
2. **Time allowed is 3 hours.**
3. Any examination **irregularity** will lead to **disqualification.**
4. Indicate your **Admission No**. in each answer sheet.
5. Cell phones should be switched off during the examination.
6. No reference material of any kind should be carried into the examination room.
7. Marks may be lost for illegibility.
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 **Question 1**

Distinguish between the features of primary and secondary computer memory and the uses a computer makes of each of them. (25 marks)

**Question 2**

Describe what you consider to be the TWO essential input and TWO essential output devices required to be used with small office or home PCs. Indicate why you consider them essential.

(25 marks)

**Question 3**

Describe the relationship between the CPU and the memory of a personal computer and their influence on processing speed. (25 marks)

**Question 4**

Describe and compare RAM and cache memory. (25 marks)

**Question 5**

Explain how anti-virus software operates and describe TWO drawbacks or limitations to their use.

(25 marks)

**Question 6**

Describe the main functions that are performed by an operating system such as Windows or Linux. (25 marks)

**Question 7**

Explain what machine code (or machine language) is for and give FOUR examples of actual machine code instructions. (25 marks)