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**UNIVERSITY OF NAIROBI**

**MOMBASA CAMPUS**

**COMPUTER APPLICATIONS CAT 1**

**INSTRUCTIONS: ANSWER ALL QUESTIONS IN SECTION A AND ANY OTHER ONE QUESTION FROM SECTION B:**

**SECTION A**

1. Differentiate between the following terms as used in computer applications (10 Marks)
   1. Computer generation and computer literacy
   2. System software and Application software
   3. DRAM and SRAM
   4. Impact and Non-impact Printers
   5. Mainframe and Super Computers
2. Explain the **first** and **third** generation of computers highlighting their main characteristics(4 Marks)
3. State and Explain two types of computers based on functionality (2 Marks)
4. Express the following numbers in their indicated bases( 6 Marks)
5. Express 101011100.0112 in decimal form
6. Express 19FDE16 in binary form
7. Binary Arithmetic, 101112 + 011012
8. A computer was recently advertised for sale on the Jumia website. Here is part of the specification from the advert: ***2.0 GHZ CPU, 256 MB RAM and 200 GB HDD.*** Explain the abbreviations including the significance of the numbers (3 Marks).

**SECTION B**

1. Explain the following software/hardware considerations when choosing and buying a computer (10 Marks)
2. System requirements
3. Portability
4. Size of memory
5. User needs
6. Documentation
7. Today’s world is an information-rich world and it has become a necessity for everyone to know about computers, Discuss the uses/application of computers in the following areas (10 Marks).
8. Engineering
9. County Government
10. Farming
11. Medicine
12. Security