



THE KENYA POLYTECHNIC

GRAPHIC ARTS DEPARTMENT

DIPLOMA IN PRINTING TECHNOLOGY

END OF YEAR I EXAMINATIONS

NOVEMBER 2006

COMPUTER APPLICATIONS

3 HOURS

INSTRUCTIONS TO CANDIDATES

Answer any FOUR questions.

All questions carry equal marks and the maximum marks for each part of a question are as shown.

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1. (a) Define the term resolution (2 marks)
- (b) State the following:
 - i) Bits in one byte
 - ii) Bits in the word KENYA
 - iii) Kilobytes in 10 megabytes
 - iv) Megabytes in 2 gigabytes
 - v) Bytes in 2454 (15 marks)
- (c) Calculate the number of times more an image of 600 dpi is to one of 300 dpi. (8 marks)
2. (a) Stating an example of each, outline the THREE basic parts a computer needs to operate as a system. (12 marks)
- (b) Explain how the modem functions. (7marks)
- (c) Explain the difference between analogue and digital signals. (6 marks)

3. (a) Explain the term processing. (5 marks)
- (b) Write the following in full
- i) CD ROM
 - ii) PPI
 - iii) DPI
 - iv) SIMM (8 marks)
- (c) Explain how the removable external hard disk drive operates. (12 marks)
4. Outline any FIVE basic parts found:
- (i) outside the CPU
 - (ii) inside the CPU (25 marks)
5. (a) Outline the meaning of the following in a computer:
- i) Hardware
 - ii) Software (4 marks)
- (b) State any THREE examples of question 5 (a) (i) and (ii) (12 marks)
- (c) Explain the meaning of memory of the computer and how it works. (9 marks)