



**JARAMOGI OGINGA ODINGA UNIVERSITY
OF SCIENCE AND TECHNOLOGY**

SCHOOL OF EDUCATION

SPECIAL NEEDS DEPARTMENT

**REGULAR EXAMINATION
2nd Year Semester One Examination 2013**

**ESN 2126 COMPUTER APPLICATION IN SPECIAL NEEDS
EDUCATION
(REGULAR – DIPLOMA IN SNE)**

**SECTION A: QUESTION ONE IS COMPULSORY
SECTION B: ANSWER ANY TWO QUESTIONS**

SECTION A

QUESTION ONE (30 Marks)

- a) Convert the following Numbers from their bases to equivalent in Binary, Hexadecimal or Decimal numbers. Show your workings. **(6marks)**
- i) 124_{10}
 - ii) 10100110_2
 - iii) BE_{16}
- b) List the major Computer System Components **(2 marks)**
- c) List any four input devices and explain the functions of each. **(6 marks)**
- d) Briefly discuss functions of the different components of a CPU(processor) **(10 marks)**
- e) Discuss at least four functions of the operating system. **(6 marks)**

SECTION B

QUESTION TWO (20 Marks)

- a) Write five applications of computers in business today **(5 marks)**
- b) Explain the difference between digital and analog machines. **(5 marks)**
- c) Use three examples to differentiate between System software and Application Software **(5 marks)**
- d) Identify two, conditions or situations that cause loss or harm to computer system. **(5 marks)**

QUESTION THREE (20 Marks)

- a) State difference between the early computers and today's computers? **(6 marks)**
- b) If you want to buy a computer for maintaining your household finances, which type of computer would best meet your needs? **(1 mark)**
- c) A large financial organization with 2000 employees wants to buy a computer on which all employees can work simultaneously. Suggest the type of computer the company can buy. **(1 mark)**

- d) Give a reason why are supercomputers used for complex tasks such as weather forecasting.
(2 mark)
- e) Discuss the benefits and limitations of computers **(6 marks)**
- f) List four characteristics of computers **(2 marks)**
- g) Explain what will happen if incomplete instructions are provided to a computer?
(2 mark)

QUESTION 4 (20 Marks)

- a) What are the two categories of software? **(2 marks)**
- b) Which type of software coordinates the functions of hardware components? **(1 mark)**
- c) What are some types of application software used in day-to-day activities? **(2 marks)**
- d) Define the following terms
 - i) An operating system **(1 mark)**
 - ii) Processing **(1 mark)**
- e) Write two examples of each of the following
 - i) single-user operating systems. **(2 marks)**
 - ii) multi-user operating systems. **(2 marks)**
 - iii) icons found in the windows opening screen. **(1 marks)**
- f) Describe the procedure for creating a shortcut from the ms word application to the desktop. **(1 mark)**
- g) Explain the purpose of the following items in a window. **(5 marks)**
 - i. Title bar
 - ii. Scroll bar
 - iii. Restore button
 - iv. Menu bar
 - v. Window border
- h) Differentiate between data and information. **(2 marks)**

QUESTION FIVE (20 Marks)

- a) Explain the following terms as used in computers:-
- i. GUI. **(1 mark)**
 - ii. The recycle bin. **(1 mark)**
 - iii. Dialog box. **(1 mark)**
 - iv. Folder. **(1 mark)**
- b) List two methods used to copy and move information. **(2 marks)**
- c) Give a reason why a disk should be formatted **(2 marks)**
- d) What do you understand by the terms
- i) cold booting **(1 mark)**
 - ii) Warm booting. **(1 mark)**
- e) You have just received an email from a classmate requesting you to email him lecture notes from your lecturer. Explain how you would go about this task. **(3 marks)**
- f) You have been given homework on the life and achievement of President Barack Obama, the USA President. Explain how you'll use the Internet to achieve this task. **(3 marks)**

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