JARAMOGI OGINGA ODINGA UNIVERSITY OF SCIENCE AND TECHNOLOGY

SCHOOL OF INFORMATICS AND INNOVATIVE SYSTEMS

UNIVERSITY EXAMINATION FOR THE

BACHELOR OF SCIENCE IN . BIOLOGICAL SCEINCES, BSC. ENGINEERING (RENEWAL ENERGY), BSC. ENGINEERING (CONSTRUCTION)

1st YEAR 1st SEMESTER 2016 ACADEMIC YEAR

MAIN CAMPUS

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COURSE CODE: SCS 3111

COURSE TITLE: COMPUTER ORGANISATION AND APPLICATIONS

 EXAM VENUE: **STREAM: Bsc Eng, Bsc Construction, Bsc Biological Science**

DATE: **EXAM SESSION:**

TIME: 2.00 HOURS

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INSTRUCTIONS:

1. **Answer Question 1 (Compulsory) and ANY other two questions**
2. **Candidates are advised not to write on the question paper**
3. **Candidates must hand in their answer booklets to the invigilator while in the examination room**

QUESTION ONE [30 MARKS]

a) i) Differentiate between static and dynamic RAM. **(4 Marks)**

ii) What is the work of control unit in a computer. **(3 Marks)**

iii) Assuming you want to print your document, which menu do you choose for 'print preview'. **(1 Marks)**

b) i) What is data as used in computers. **(2 marks)**

ii) Operating systems typically provide each process with a virtual address space. Give three advantages of this. **(3 Marks)**

c) i) Name and explain briefly three main types of computers. **(6 Marks)**

ii) How is access control managed in Windows NT? **(5 marks)**

iii) Differentiate between System Software and Application Software? **(4 Marks)**

QUESTION TWO [20 MARKS]

a) i) Explain what is meant by a master file in computers. **(3 marks)**

ii) Explain in your own words what we mean by 'Expansion slots' in a computer.

(2 Marks)

iii) What do you understand by the term 'off-line' device**?. (3 Marks)**

b) i) What is the meaning of the abbreviation FIFO. **(2 Marks)**

ii) Describe the main characteristics of the following types of software licence:

   1. Site licences. **(2 marks)**
   2. Software lease. **(3 marks)**

iii) Explain what we mean by the word 'Operating System' and give four examples of the same. **(5 Marks)**

QUESTION THREE [20 MARKS]

a) i) Which binary number comes right after the binary number 101001? **(3 Marks)**

ii) What is a NIC and what are its functions in a computer?. **(2 Marks)**

iii) How many bits is a kilobyte?. **(2 Marks)**

b) i) Describe what you understand by the term menu bar in MS Word. **(2 Marks)**

ii) What menu is selected to spell check? **(2 marks)**

iii) Computers have evolved over a time since the first computer was manufactured. How many generations of computers have been encountered till today. Give a brief history of computer evolution. **(5 Marks)**

c) Define the following words:
    i.   Computer
    ii.   Hardware
    iii.   Software
    iv.   Monitor   **(4 Marks)**

QUESTION FOUR [20 MARKS]

a) i) Formatting an external disk is important .What is formatting? **(3 Marks)**

ii) List three types of system software and Application Software. **(6 Marks)**

iii) Explain the meaning of the word application software in computers. **(2 Marks)**

b) i) Explain in your own terms what you understand by the term device driver? **(2 Marks)**

ii) Give four examples of output devices. **(4 Marks)**

iii) Explain the meaning of 'hanging indent' as used in MS Word. **(3 Marks)**

QUESTION FIVE [20 MARKS]

a) i) List and explain four parts of Ms word screen. (8 Marks)

ii) List and explain three features that allow a user to edit or modify a document. (6 Marks)

b) Define the following words as used in Ms Word;

1. Font attribute (2 marks)

2. Type face (2 Marks)

3. Subscript (2 Marks)