

**CHUKA**



**UNIVERSITY**

## **UNIVERSITY EXAMINATIONS**

**EXAMINATION FOR THE AWARD OF CERTIFICATE IN COMPUTER SCIENCE**

**COSC 00106: INSTALLATION AND CUSTOMIZATION**

**STREAMS: CERT COMP SCI(Y1S2)**

**TIME: 2 HOURS**

**DAY/DATE: THURSDAY 6/12/2017**

**8.30 A.M – 10.30 A.M**

### **INSTRUCTIONS:**

- **Answer question one and any other two from section B**
- **University exam rules and regulations applies**

### **SECTION A {Compulsory}**

#### **QUESTION ONE (30 marks)**

- a) Describe the term hardware software conflict [3 marks]
- b) In booting process the following terms are normally referred to, briefly discuss the functions of each of them.
  - i. BIOS [3 marks]
  - ii. POST [3 marks]
  - iii. CMOS [3 marks]
- c) Highlight any four functions/roles of an expansion bus [4 marks]
- d) Suggest any three ways of increasing the available computer memory [3 marks]
- e) State any four requirements that must be considered before installing a new software in a computer [4 marks]
- f) Distinguish between typical and custom installation [4 marks]
- g) Explain the role of the following files used in computer system
  - i. Config.sys [2 marks]
  - ii. Autoexec.bat [1 mark]

**SECTION B {Answer any two questions}**

**QUESTION TWO (20 marks)**

- a) Explain three benefits of hard disk partitioning [6 marks]
- b) Discuss five minimum requirements for installing windows 7 operating system [10 marks]
- c) John has just received an error message “Abort,Retry,Fail” on his screen when trying to read a file from his flash disk. Discuss what is the most likely cause of the error [4 marks]

**QUESTION THREE (20 marks)**

- a) State and explain functions of any five major parts of a computer motherboard. [10 marks]
- b) Describe three steps of computer booting sequence to a point of loading operating system [6 marks]
- c) Highlight four ways to protect computer against virus attacks [4 marks]

**QUESTION FOUR (20 marks)**

- a) Briefly outline the procedure for carrying out the following tasks in windows environment
  - i. Adding a program shortcut on the desktop [3 marks]
  - ii. Changing the wall paper [3 marks]
  - iii. Adjusting screen resolution [3 marks]
- b) A computer system is made up of both computer hardware and computer software, explain five ways used to care and maintain computer system [10 marks]
- c) Define the term installation [1 mark]

**QUESTION FIVE (20 marks)**

- a) Explain the role of the following utilities
    - i. Defragmenters [2 marks]
    - ii. Disk quota [2 marks]
    - iii. Check disk [2 marks]
    - iv. Disk clean up [2 marks]
  - b) Describe four ways to solve hardware conflicts [8 marks]
  - c) List four types of operating system [4 marks]
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