

# UGANDA MARTYRS UNIVERSITY NKOZI

UNIVERSITY EXAMINATIONS

FACULTY OF SCIENCE

## DEPARTMENT OF COMPUTER SCIENCE AND INFORMATION SYSTEMS

Supplementary / Special Examination

Computer Architecture – Diploma Computer Science and Information Systems

DATE: 7<sup>th</sup> August 2015

TIME: 10:00am

DURATION: 2HRS

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### Instructions:

1. Carefully read through ALL the questions before attempting
  2. The paper consists of two sections A and B. All Sections are compulsory.
  3. No **names** should be written anywhere on the examination book.
  4. Ensure that your **ID number** is indicated on all pages of the examination answer booklet.
  5. Ensure your work is **clear** and **readable**. Untidy work shall be penalized
  6. Any type of examination Malpractice will lead to automatic disqualification
  7. Do not write anything on the questions paper.
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### SECTION A

1. Which expansion slot runs at 33 MHz?
  - A. ISA
  - B. EISA
  - C. PCI
  - D. AGP
2. Which factor determines the speed of the CPU?
  - A. Memory speed
  - B. Motherboard form factor
  - C. External clock on the motherboard
  - D. Size of the address bus
3. Which computer resource allows a device to bypass the processor and directly access memory?

- A. IRQ
  - B. RAM
  - C. Cache
  - D. DMA
4. How is the screen size of a monitor measured?
- A. Vertically
  - B. Horizontally
  - C. Diagonally
  - D. the perimeter of the screen
5. Which type of slot is only used for video adapters?
- A. EISA
  - B. ISA
  - C. PCI
  - D. AGP
6. Which type of device is hot-swappable?
- A. Floppy drive
  - B. Parallel
  - C. USB
  - D. Serial
7. Which device does the POST check first?
- A. Floppy drive
  - B. Memory
  - C. Hard drive
  - D. CPU
8. Which of the following is a storage device?
- A. Monitor
  - B. Processor
  - C. Hard drive
  - D. Key board
9. What is the recommended CMOS setting for IDE hard drives?
- A. Typical
  - B. Custom
  - C. Default
  - D. Auto
10. How can a PC technician reset a forgotten CMOS password?
- A. Use the Password utility in Control Panel.
  - B. Reinstall the operating system.
  - C. Clear the password by using the CMOS reset jumper on the motherboard.
  - D. Bypass bootup and reset CMOS to default.
11. How are hard drives configured to be a master or slave drive?
- A. With CMOS settings
  - B. With BIOS settings
  - C. During the partitioning of the drives
  - D. With jumpers
12. What is the most popular motherboard form factor used in the computers of today?
- A. AT
  - B. ATH
  - C. ATX
  - D. ATZ

13. How should the boot IDE hard drive be configured?
- A. Primary master
  - B. Primary slave
  - C. Secondary master
  - D. Secondary slave
14. Moving a desktop computer with the power on is most likely to damage which component?
- A. Power supply
  - B. Monitor
  - C. Hard drive
  - D. Video card
15. What is the minimum RAM requirement for a complete Windows 98 installation?
- A. 8
  - B. 16
  - C. 32
  - D. 64
16. When we perform subtraction on -7 and -5 the answer in 2's complement form is \_\_\_\_
- A. 11110
  - B. 1110
  - C. 1010
  - D. 0010
17. The decoded instruction is stored in \_\_\_\_.
- A. IR
  - B. PC
  - C. Registers
  - D. MDR
18. Which registers can interact with the secondary storage?
- A. MAR
  - B. PC
  - C. IR
  - D. R0
19. The registers ALU and the interconnection between them are collectively called as \_\_\_\_.
- A. Process route
  - B. Information trail
  - C. information path
  - D. data path
20. The \_\_\_\_ format is usually used to store data.
- A. BCD
  - B. Decimal
  - C. Hecadecimal
  - D. Octal

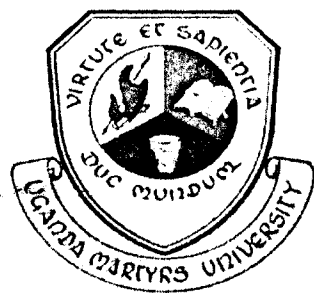
## SECTION B

### QUESTION ONE

- a) Briefly explain the meaning of the following terms (4 marks)
- i) Computer architecture (4 marks)
  - ii) Computer Organization
- b) All computer functions are comprised of four basic operations: Data processing; Data storage; Data movement; Control. Describe the underlined terms in relation to computer architecture (3 marks @)
- c) With the help of illustrations and examples where necessary, describe the functional view of the computer (5 marks)

### QUESTION TWO

- a) Define the term binary system (3 marks)
- b) Convert 283 into binary using repeated division by two (3 marks)
- c) Compute the following Hex numbers (3 marks)
- i)  $BED - 70F$  (3 marks)
  - ii)  $127 + 50A$  (5 marks)
- d) Convert  $39A4_{16}$  using the quick method
- e) Add -5 and -6 together using two's complement 8bit representation. Show all the working. (8 marks)



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Uganda  
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# Bachelor of Science in Accounting and Finance

## SUPPLEMENTARY/SPECIAL EXAM

**COURSE UNIT: FUNDAMENTALS OF ACCOUNTING 1**

**DURATION: 3 Hours**

**DATE: .....**

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### **INSTRUCTIONS TO CANDIDATES**

1. This examination contains Sections A, and B
2. Attempt all the 20 multiple-choice questions in Section A. Each question carries 1 mark.
3. Attempt **four** of the five questions in Section B. Each question carries 20 marks.

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**This question paper contains 6 questions and 6 pages**