



# **MAASAI MARA UNIVERSITY**

**REGULAR UNIVERSITY EXAMINATIONS**

**2021/2022 ACADEMIC YEAR**

**SCHOOL OF PURE, APPLIED AND HEALTH SCIENCES**

**DEPARTMENT OF HEALTH SCIENCES**

**DIPLOMA IN NUTRITION**

**COURSE CODE: DND- 1104**

**COURSE TITLE: COMPUTER APPLICATIONS**

**DATE: 4<sup>TH</sup> APRIL,2022**

**TIME: 1100-1300HRS**

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## **INSTRUCTIONS:**

- THERE ARE **THREE** SECTIONS: SECTIONS **A, B** AND **C**
- ANSWER **ALL** MULTIPLE QUESTIONS IN **SECTION A** AND ALL SHORT ESSAYS IN **SECTION B** AND ANY **TWO** QUESTIONS IN **SECTION C**.

**SECTION A: ANSWER ALL MULTIPLE QUESTIONS (MQS) (20Mks)**

1. RAM is also called as \_\_\_\_\_
  - A. Virtual memory
  - B. Volatile memory
  - C. Non volatile memory
  - D. Cache memory
2. A customer comes into a computer parts and service store. The customer is looking for a device to display a promotional presentation to a large audience at a conference. What device should the store owner recommend to accomplish the required task?
  - A. Projector
  - B. joystick or gamepad
  - C. magstripe reader
  - D. AR headset
3. Which characteristic describes ROM?
  - A. A Chip That Cannot Be Erased Or Rewritten And Is Now Obsolete
  - B. chips that run at clock speeds of 800 MHz and have a connector with 240 pins
  - C. chips specifically designed for video graphics that are used in conjunction with a dedicated GPU
  - D. chips that require constant power to function and are often used for cache memory
4. Which two devices are considered input devices? (Choose two.) (2mks)
  - A. biometric authentication device
  - B. printer
  - C. digital camera
  - D. projector
  - E. speakers
5. Which three devices are considered output devices? (Choose three.)
  - A. headphones
  - B. keyboard
  - C. fingerprint scanner
  - D. monitor
  - E. mouse
  - F. printer
6. A customer comes into a computer parts and service store. The customer is looking for a device to manually input text for a new networking textbook that the customer is writing. What device should the store owner recommend to accomplish the required task?
  - A. Keyboard
  - B. biometric scanner
  - C. NFC device
  - D. flatbed scanner
7. What is the function of the power supply?
  - A. to convert AC power into a lower voltage DC power
  - B. to convert AC power into a higher voltage DC power
  - C. to convert DC power into a lower voltage AC power
  - D. to convert DC power into a higher voltage AC power
8. The two kinds of main memory are \_\_\_\_\_
  - A. CDs and DVDs

- B. RAM and ROM
  - C. Primary and secondary
  - D. Direct and sequential
9. The main memory of computer is also called as \_\_\_\_\_
- A. Hard-disk
  - B. Primary storage
  - C. Secondary storage
  - D. Internal memory
10. Which of the following is equal to a gigabyte?
- A. 1024 Bytes
  - B. 512 Gb
  - C. 1024 Megabytes
  - D. 1024 Bits
11. A hardware device that is capable of executing a sequence of instruction is called \_\_\_\_\_
- A. CU
  - B. Processor
  - C. CPU
  - D. ALU
12. Using Microsoft word, we can simply \_\_\_\_
- A. Paste picture
  - B. Type
  - C. Format a text
  - D. All the above functions
13. From which type of data storage does the CPU load information for processing during normal operation?
- A. SSD
  - B. RAM
  - C. ROM
  - D. hard drive
14. A computer is accurate, but if the result of a computation is false, what is the main reason for it? **(1mk)**
- A. Power failure
  - B. The computer circuits
  - C. Incorrect data entry
  - D. Distraction
15. Ms word is an example of \_\_\_\_\_
- A. An operating system
  - B. A processing device
  - C. Application software
  - D. An input device
16. A computer cannot “boot” if it does not have the \_\_\_\_\_
- A. Compiler
  - B. Loader
  - C. Operating system
  - D. Assembler

17. Viruses \_\_\_\_

- A. Another form of computer attack is virus
- B. Viruses are designed to spread into other programs and can wreak havoc in system
- C. Causing system crashes and program malfunctioning
- D. All of these

SECTION B: ANSWER ALL QUESTIONS IN THIS SECTION [40 MARKS]

1. State three **input** devices in relation to computers. [6mks]
2. Distinguish term “bit” and a “byte”. [4 mks]
3. State two examples of **storage devices** available in computing environment. [4 mks]
4. Define term “application software” [2 mks]
5. State two operating system software [4 mks]
6. Briefly explain the two type of software found in a computer system. [6 mks]
7. State three benefits of the internet. [6 mks]
8. Using relevant examples, differentiate between wired and wireless communications media. [4 mks]
9. Explain the following terms as applied in computer systems: [4 mks]
  - i. Computer
  - ii. Data

SECTION C: ANSWER ANY TWO QUESTIONS FROM THIS SECTION [40 MKS]

1. You have been appointed as an ICT assistant in your organization and tasked to buy a computer for the Section, what are the features and components would you consider when procuring the computer for use?
  - i. State five features of a computer would you consider when procuring the computer. [10 mks]
  - ii. Discuss components of a computer would you consider when procuring the computer. [10 mks]
2. The primary purpose of an operating system is to maximize the productivity of a computer system by operating it in the most efficient manner.
  - i. Discuss the five basic functions of an Operating System. [10 mks]
  - ii. Explain five factors that affect the speed of the computer. [10 mks]
3. An upcoming organization uses a lot of files in keeping records; the organization wants to break down the paperwork and automate the basic routine jobs by interconnecting computers in the organization.
  - i. What will be the advantages of using the computer to network the organization? [10 mks]
  - ii. What will be the disadvantage of using the computer in the organization? [10 mks]
4. a) Explain the impact of computer systems and technology in [10 mks]
  - i. Health care
  - ii. Education, science and research

b) Purity a student at Maasai Mara University was asked by her Lecturer to “identify and classify five type of computers”, Explain how she will solve the problem? [10 mks]

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