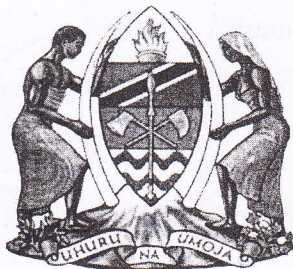


THE UNITED REPUBLIC OF TANZANIA



**PRESIDENT'S OFFICE
REGIONAL ADMINISTRATION AND LOCAL GOVERNMENT
MOROGORO REGION
FORM FOUR MOCK EXAMINATION, 2020**

INFORMATION AND COMPUTER STUDIES

(THEORY)

036/1

**TIME: 2: 30HRS
PM**

27/08/2020

INSTRUCTIONS

1. This paper consists of sections A, B and C.
2. Answer all questions in section A, B and one question from section C.
3. Show all steps involved in arriving at the correct answer
4. Calculators are not allowed in the examination room
5. Cellular phones are not allowed in the examination room.
6. Write your Examination Number on every page of your answer booklet (s)

SECTION A (30 Marks)

1. For each of the item (i) – (x) choose the correct answer among the given alternatives and write its letter beside the item number.
 - i. The prevention of data loss from power failure is done by:
 - A. Socket extension
 - B. Surge protector
 - C. Uninterruptable power supply
 - D. Voltage stabilizer.
 - ii. Word processor, spreadsheet and photo editing are example of
 - A. Application software
 - B. Graphic software
 - C. Operating system
 - D. System software
 - iii. Early computing devices include:
 - A. Abacus, Pascal and slide rule
 - B. Laptop, desktop and slide rule
 - C. Pascal, television and laptop
 - D. Slide rule, abacus and radio
 - iv. Surgeons can perform delicate operations by manipulating devices through computers instead of manually. This technology is known as:
 - A. Robotics.
 - B. Computer forensics.
 - C. Simulation.
 - D. Forecasting.
 - v. Which part among the following in a computer is related to a human brain?
 - A. Hard disk
 - B. Keyboard
 - C. Monitor
 - D. Processor
 - vi. Are special designed computer chips that reside inside other devices, such as your car or your electronic thermostat.
 - A. Servers
 - B. Embedded computers
 - C. Robotic computers
 - D. Mainframes
 - vii. Which of the following formulas would find the smallest number in the cell range B10 to E25?
 - A. =COUNT (B10:E25).
 - B. =MIN (B10:E25).
 - C. =FIND (B10:E25).
 - D. =SMALL (B10:E25).
 - viii. Who is credited with the idea of using punch cards to control patterns of a weaving machine?
 - A. Pascal
 - B. Hollerith

- C. Babbage
- D. Jacquard
- ix. A dumb terminal has
 - A. An embedded microprocessor
 - B. Extensive memory
 - C. Independent processing
 - D. A keyboard and screen
- x. The act of tapping into communication channels to access private and confidential information is referring to
 - A. Piracy
 - B. Privacy
 - C. Sabotage
 - D. Hacking

2. Match the following devices in **LIST A** with their responses in **LIST B** by writing the letter of the correct option beside the item number.

LIST A	LIST B
i. Graph plotter	A. Convert printable document to electronic document
ii. Laser printer	B. Convert softcopy document into hardcopy document
iii. Dot matrix printer	C. A garage using multi-part stationery with carbon copies would need
iv. Scanner	D. An architect's office producing house plans using A0 size paper would use
v. Bar code	E. A student printing out coursework needing high quality printouts would use
	F. Data about the details of a tin of beans is stored on the tin using
	G. Data about a bank account is stored on a credit card on
	H. High quality permanent output can be produced using a

3. Rearrange the proper steps for data processing.

- A. Data preparation
- B. Data storage
- C. Data input
- D. Data collection
- E. Processing
- F. Data output/interpretation

SECTION B (60 Marks)

Answer **all** questions in this section

4. A systems analyst has been asked by a school librarian to update the computer system she uses to keep records about her books
 - a) The systems analyst must first of all collect information about the existing system. Describe four methods which could be used to collect this information
 - b) After having information will need to be verified. Describe two methods of verifying information.
5.
 - a) Mention three needs for publishing web page.
 - b) What are two importances of publishing web page?
 - c) What is web site? Mention and explain with examples the types of websites.
6.
 - a) What is Multimedia? Mention four elements of multimedia
 - b) Differentiate between linear and non linear presentation
 - c) Mention four features of Multimedia system.
7.
 - a) A youth club asks you to create a database of members. State four things you will consider before creating the database.
 - b) A school keeps records of every student including details of their names, addresses, phone numbers and dates of birth. Using this information define
 - i. File
 - ii. Field
 - iii. Record
8.
 - a) OMR, OCR and MICR are methods of direct data entry. Describe each method, giving an example of an application where each might be used
 - b) Michael wishes to make a copy of his Geography coursework which is stored on the school computer system. He wants to take it home to finish it for homework. He can borrow a CD RW from school but he has a 128 Mb memory stick of his own.
 - i) Give two advantages of using the CD RW.
 - ii) Give two advantages of using the memory stick
9. Many banks now allow their customers to manage their accounts on-line. Explain this development. In your answer give two advantages and two disadvantages to the bank as well as the advantages and disadvantages to the customer

SECTION C (10 Marks)

Answer **ONE** questions in this section

10. A student has been asked by his headmaster to produce a way of advertising the school to the local public. One option is to use a desktop publishing package to produce a magazine to distribute to every household in the neighbourhood. He could also create a presentation to be shown in the local library. Discuss two advantages and two disadvantages of each option.
11. Describe four ways to evaluate the reliability of information found on a website

Data entry
— Direct data entry