

**THE UNITED REPUBLIC OF TANZANIA
PRIME MINISTER'S OFFICE
REGIONAL ADMINISTRATION AND LOCAL GOVERNMENT**



**LAKE ZONE FORM FOUR MOCK EXAMINATION
(SHINYANGA, SIMIYU, GEITA, KAGERA, MARA AND MWANZA)**

**036/1 INFORMATION AND COMPUTER STUDIES
(For Both School and Private Candidates)**

Time: 3 Hours

Year: 2026

INSTRUCTIONS

1. This paper consists of sections A, B and C with total of eleven (11) questions
2. Answer all questions in section A and B, and two (2) questions from section C.
3. Section A Carries sixteen (16) marks, section B carries fifty-four (54) marks, and section C Carries thirty (30) marks.
4. Cellular phones and any unauthorized materials are not allowed in the examination room.
5. Write your examination number on every page of your answer booklet(s)

This paper consists of 6 printed pages

SECTION A: (16 MARKS)

Answer all questions in this section

1. For each of the following items (i)-(x) choose the correct answer from among the given alternatives and write its answer on the answer booklet provided.
 - (i) Each computer generation accompanied with multiple development. Which development marked in the second generation of computers?

A. Microprocessor	D. Intelligence
B. Vacuum tubes	E. Transistors
C. Registers	
 - (ii) Mwanaidi typed URL www.necta.go.tz on a web browser, when searching form four results, immediately she interacted with first page displayed on her computer. What this page is called.

A. HTML page	D. Link page
B. Home page	E. Webpage
C. Bookmark page	
 - (iii) Relational database management system is application software used to organize, store, manage and analyze data in good system. Which presentation of data this system applied?

A. Stores data in distributed systems	B. Stores data in tables that contains rows and column
C. Stores data in the form of parent-children relationship nodes	D. Stored data in a virtual environment
E. Stores data at a centralized database system	
 - (iv) Communication media are channels provides the pathways, which the messages can travel from source to destination. Which are two types of those media used in distributing information in the society?

A. Mechanical media and physical CD.	B. TV and radio
C. Notice board and magazine media	D. Social media and news media
E. Images and sound	
 - (v) The headmaster of Pamba secondary school needs to move packets of data from his local area network to TAMISEMI Headquarter office. Which device among of the following will you advise him to buy in order to accomplish activity?

A. Hub	D. Router
B. Switch	E. Fax machine
C. Bridge	

(vi) Joha want to buy a computer for her new secretarial office. What is she supposed to consider in selecting the computer?

- A. UPS durability
- B. CPU speed
- C. Monitor speed
- D. RAM type
- E. Screen shape.

(vii) You were asked to prepare a presentation on the importance of studying computer studies. What kind of software will you use to accomplish the task?

- A. Microsoft publisher
- B. Microsoft power pointer
- C. Microsoft word
- D. Microsoft excel
- E. Microsoft access

(viii) You have been given analog and digital data to process for immediate use. Which type of computer will you opt for the effectiveness and efficiency of the task?

- A. Minicomputer
- B. Microcomputer
- C. Supercomputer
- D. Hybrid computer
- E. Mainframe computer

(ix) A principal of a certain education college want to establish an email address for all staff members in order to have effective and secure communication. Which type of email address would you suggest to be opted?

- A. Commercial email address
- B. Organizational email address
- C. Yahoo email address
- D. Academic email address
- E. Google email address

(x) Sikujua designed a brochure for her ICT club members. She wants to produce 20 printouts of her work. Which one represents the correct procedures for accomplishing her goals?

- A. Click print, click file menu, select printer, type 20 copies then click print
- B. Click file menu, select printer, click print, type 20 copies then click print
- C. Click file menu, type 20 copies, click print, select printer and then click print
- D. Click file menu, click print, select printer, type 20 copies then click print.
- E. Select printer, click file menu, click print, type 20 copies then click print.

2. Match the items in list A, with their correct response in list B, by writing the letter in the answer booklet provided

LIST A	LIST B
(i) Bus topology	A. The combination of more than one topology
(ii) Star topology <i>D</i>	B. It involves the concepts of routers; messages sent on mesh network can take any several possible path.
(iii) Ring topology	C. Only a switch or hub connects directly to tree bus and each function as the root of tree devices.
(iv) Mesh topology	D. It consists of all nodes connected to central hub or switch
(v) Tree topology	E. It consists of single cable known trunk or backbone or segment that connect all computers and other devices
(vi) Hybrid topology <i>A</i>	F. Its layout or designed of all connected devices
	G. Each node is connected to form single closed data path.

SECTION B: (54 MARKS)

3. The ICS teachers at Kampaga secondary school assigned you to prepare the following work sheet, which shows the second term results of form four students. Study it carefully and answer the questions that follows

	A	B	C	D	E	F	G	H	I	J	K	L	M	N
1	THE UNITED REPUBLIC OF TANZANIA													
2	KAMPAGA SECONDARY SCHOOL													
3	FORM IV RESULT SECOND TERM													
4	SN	Sir name	given name	math	Biology	physics	chemistry	Ics	kiswahili	English	Total	Average	Grade	position
5	1	Bigulu	Mohamed hasan	90	89	78	70	85	75	80	567	81	A	1
6	2	Mwakipesile	peter john	34	56	45	48	60	52	56	351	50	C	3
7	3	Byangaba	Andrea josephal	20	25	30	34	24	56	48	237	34	D	3
8	4	Mwajuma	hussein sheikh	15	23	18	30	25	20	22	153	22	F	5
9	5	Mrisho	Jackson john	78	65	90	58	64	72	88	515	74	B	2
10														

- (a) Which function would you use to calculate the average of the students' marks, which are integers? (2 marks)
- (b) Suggest the function used to assign the grades for each student. Hints (if average stand from (75-100 = A, 65-74 = B, 45-64 = C, 30-44 = D and 0-29 = F) (2 marks)
- (c) Which function would you use to rank the students' positions? Hint: (The rank should base on student's average (2marks)
- (d) Which steps would you follow to remove row 10 from the worksheet? (3marks)

4. The ministry of health uses television and radio broadcasting to disseminate information about pandemic diseases and measures to be taken by the society.
- (a) Which type of information method used by the ministry of health? (2marks)
 - (b) Why the ministry uses such means of disseminating information? Give four reasons (4marks)
 - (c) What are two challenges would the ministry face by using such methods of disseminating information? (3marks)
5. What do you understand on the following terms as used in Database management system?
- (a) Table
 - (b) Form
 - (c) Query
 - (d) Primary key
 - (e) Object
 - (f) Foreign key (@ 1.5 marks)
6. The academic master created computer backup by using a storage medium located within the office. Suddenly the office got fire caused by electricity problem and the data were lost.
- (a) Identify the method of backup done by the academic master (1mark)
 - (b) Explain three benefits of the method of backup identified in (6) (a) above (each 2 marks)
 - (c) Which method of backup could be used to avoid the problem that happened? Give reasons (2marks)
7. The internet provides several services such as e-mail, e-learning, e-commerce, news groups, online forums, video and teleconferencing and social media.
- (a) What is an e-mail (1mark)
 - (b) Identify two types of e-mail addresses (1mark)
 - (c) When sending an e-mail, you will be required to follow some steps. Explain the meaning and uses of the following parts of e-mail
 - (i) Compose
 - (ii) To field
 - (iii) CC field
 - (iv) BCC
 - (v) Attachment (@ 1 marks)
 - (d) Kideisheni Company LTD are in process of computerizing its services. List four (4) measures that should be put into consideration to protect the users in their computerized area.(each 0.5 = 2 marks)

8. (a) You have been invited as a guest speaker to present before the staff members of JM Company Limited about computer malware so that they will be aware of it.
- (i) State four signs of computer affected by virus (2marks)
 - (ii) Briefly explain how computer viruses spread from one device to another. Gives three (3) points (3marks)
 - (iii) Briefly explain ways to prevent computer malware (give two (2) points (2marks)
- (b) Explain why when you want to prepare the examination results you prefer using the spreadsheet rather than word processor. (2marks)

SECTION C: (30 MARKS)

Answer only two (2) questions

9. ICT plays big roles in society today and it is applied in organization to increase performance, suppose you are an IT specialist and you are invited by KCMC hospital to talk about ICT to the workers, how you would explain the application of area of ICT in medicine and negative impacts of ICT in the society. Explain three (3) application and three (3) negative impacts (15 marks)
10. Why most of newspapers developers prefer to use desktop publishers than other programs? Explain by giving five (5) points (15 marks)
11. It was noted that after every lesson, the students complained of their eyes and mild headache. Explain in three reasons for these problems and suggest three solutions to end the problems in Raymond's collage of allied health science. (15marks)