THE UNITED REPUBLIC OF TANZANIA
NATIONAL EXAMINATIONS COUNCIL OF TANZANIA
CERTIFICATE OF SECONDARY EDUCATION EXAMINATION

036/1 **INFORMATION AND COMPUTER STUDIES 1**

(For Both School and Private Candidates)

Time: 3 Hours **Year: 2024**

Instructions

1. This paper consists of sections A, B and C with a total of **eleven (11)** questions.
2. Answer **all** questions in sections A and B, and **two (2)** questions from section C.
3. Section A carries **sixteen (16)** marks, section B **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).

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SECTION A (16 Marks)

Answer **all** questions in this section.

1. For each of the items (i) - (x), choose the correct answer from among the given alternatives and write its letter beside the item number in the answer booklet provided.

(i) Which object would you use to add a calculated field in the Ms Access database?

A Table B Macros
C Query D Report
E Form

(ii) The following are date and time functions used in spreadsheet **except;**

A TODAY ( ) B NOW ( )
C DATE ( ) D HOUR ( )
E MIN ( )

(iii) What type of topology is appropriate for combining star and bus topology?

A Hybrid topology B Tree topology
C Mesh topology D Mixed topology
E Ring topology

(iv) 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

(v) A principal of a certain education college wants to establish an e-mail 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 Organisational email address.
C Yahoo email address. D Academic email address.
E Google email address.

(vi) Which keyboard shortcut would you use to insert a page break in a word document?

A Pressing Alt + Enter B Pressing Esc +Enter
C Pressing Ctrl + Enter D Pressing Fn + Enter
E Pressing Tab +Enter

(vii) Most television users use remote to regulate volume and channels. What type of multimedia application does the remote belong?

A Inventive multimedia B Integral multimedia
C Input multimedia D Interactive multimedia
E Interference multimedia

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(viii) How can you arrange data, information and knowledge according to their relationship?

A Data → Information →Knowledge
B Knowledge →Data →Information
C Data →Knowledge →Information
D Information →Knowledge →Data
E Information → Data →Knowledge

(ix) Halima's computer displays a message "Memory not found" during booting process. Which one is the source of that fault?

A Loose or unavailability of RAM
B Insufficient memory space
C Computer Virus Infection
D The hard disk was corrupted
E Loose or unavailability of ROM

(x) What will you do to view a presentation from multiple presentations prepared using Microsoft PowerPoint?

A Click view tab then click cascade and select the presentation.
B Click view tab then click new window and select the presentation.
C Click view tab then click arrange all and select the presentation.
D Click the switch button on the task pane and select presentations.
E Click view tab then switch windows button and select the presentation.

2. Match the function of html tags in **List A** with the corresponding tags in **List B** by writing the letter of the correct answer beside the item number in the answer booklet provided.

List A	List B
(i) Tags for emphasizing the header of the table in a webpage.	A <img src="">
(ii) Tags for creating a list of bullet in a webpage.	B
(iii) Tags for creating a link in a webpage.	C <body> </body>
(iv) Tags for highlighting the main title of the webpage.	D <th> </th>
(v) Tags for inserting a picture in a webpage.	E
(vi) Tags for enclosing the elements for visibility to the webpage visitors.	F
	G <hr> </hr>
	H
	I

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SECTION B (54 Marks)

Answer **all** questions in this section.

3. The headmaster of a certain secondary school complained that his computer is not working properly. The investigation showed that the computer was infected by malware.
   (a) Explain three warning signs that led the investigator to confirm the source of the problem. **(3 marks)**
   (b) Identify three causes of the problem identified by an investigator. **(3 marks)**
   (c) What should be done by the headmaster to prevent the problem in future? Give three points. **(3 marks)**

4. (a) You have been assigned by the coordinator of the Open University of Tanzania to propose the type of computer network that connects its branches all over the country. What type of network you would suggest? **(1 mark)**
   (b) Differentiate router from switch as used in computer network. **(2 marks)**
   (c) "Deploying Fiber Optical cable for computer network in recent technology is inevitable". Justify this statement by giving three reasons. **(6 marks)**

5. Employees of a certain company spend most of their time communicating with their customers through computer system and mobile phones. This extensive use of electronic devices raises the health risk to them.
   (a) Identify three possible health risks which likely to be faced by these employees. **(3 marks)**
   (b) Explain three ways to minimize the identified risks in 5 (a). **(6 marks)**

6. The National Bureau of Statistics (NBS) of Tanzania used manual system to conduct National census. During 2022 national census, NBS practiced electronic system installed in tablets for data collection.
   (a) Explain two advantages the bureau would have been experienced for using the new approach. **(4 marks)**
   (b) What challenges were likely to be faced by the bureau of statistics when using new approach. Give three challenges. **(3 marks)**
   (c) Suggest two measures that could have been used by the Bureau of Statistics to enforce data security. **(2 marks)**

7. Which steps are to be followed when:
   (a) Inserting the comment to a slide.
   (b) Printing six slides in a single page.
   (c) Starting a slide show in power point presentation. **(9 marks)**

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8. The ICS Teacher at Kampaga Secondary School assigned you to prepare the following worksheet which shows the second term results of Form Four students. Study it carefully and answer the question that follow:

	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 RESULTS-SECOMD TERM													
4	SN	Surname	Given Names	Maths	Biology	Physics	Chemistry	ICT	Kiswahili	English	Total	Average	Grade	Position
5	1	Bigutu	Mohamed Hassan	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	Byarugaba	Andrea Josephat	20	25	30	34	24	56	48	237	34	D	4
8	4	Mwinjuma	Hussein Sheikh	15	23	18	30	25	20	22	153	22	F	5
9	5	Mrisho	Jackso 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 student marks which are integers? **(2 marks)**

(b) Suggest the function used to assign the grades for each student. Hint: (If average stands from 75 - 100 = A, 65 - 74 = B, 45 – 64 = C, 30 – 44 = D and 0 – 29 = F). **(3 marks)**

(c) Which function would you use to rank the students' positions? Hint: (The Rank should base on students' Average). **(2 marks)**

(d) Which steps would you follow to remove row 10 from the worksheet? **(2 marks)**

SECTION C (30 Marks)

Answer **two (2)** questions from this section.

9. "The use of Multimedia Technology in Tanzania has great impacts in social-economic development". Justify this statement by giving four points. **(15 marks)**

10. You were asked by a certain office to advice the operating system to be purchased for their newly bought computers. Describe six specifications that will guide you to make decision. **(15 marks)**

11. The headmaster asked you to design a school monthly magazine. However, he asked you to use a Desktop Publishing (DTP) in designing to impress the readers. Explain four steps that you would follow to accomplish the goal. **(15 marks)**

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