

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

036/1

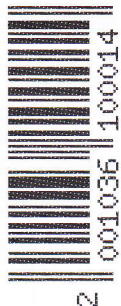
INFORMATION AND COMPUTER STUDIES 1
(For Both School and Private Candidates)

Time: 3 Hours

Year: 2020

Instructions

1. This paper consists of sections A, B and C with a total of **twelve (12)** questions.
2. Answer **all** questions in sections A and B and **one (1)** question from section C.
3. Section A carries **fifteen (15)** marks, section B **seventy five (75)** marks and section C carries **ten (10)** 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).



SECTION A (15 Marks)

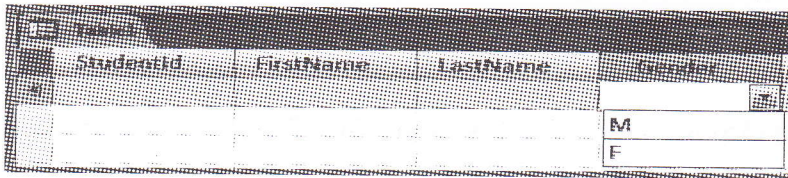
Answer **all** questions in this section.

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) The following are physical network topologies **except**
- A ring topology.
 - B ethernet topology.
 - C bus topology.
 - D star topology.
 - E mesh topology.

- (ii) Which technology was used in the fifth computer generations?
- A Large Scale Integrated
 - B Vacuum tubes
 - C Transistors
 - D Artificial intelligence
 - E Thermionic valves

- (iii) What is the type of data used in the field of Gender in the following database table?



StudentID	FirstName	LastName	Gender
			M
			F

- A Attachment
 - B Memo
 - C Lookup Wizard
 - D Hyperlink
 - E Yes/No
- (iv) Suppose you want to find and download Computer Studies books from the internet, which program would you use?
- A Google search engine
 - B Mozilla Firefox
 - C Google chrome
 - D Web browser
 - E Internet explorer
- (v) Which action enable a word processor to capture information?
- A Copy and paste
 - B Cut and copy
 - C Cut and paste
 - D Copy and insert
 - E Cut and save
- (vi) What does the <th> tag in HTML emphasize?
- A Italic text
 - B Bold text
 - C Colored text
 - D Underlined text
 - E Enlarge text
- (vii) The type of malicious program that duplicates itself, blocking the computer memory and storage is known as
- A virus.
 - B firmware.
 - C trojan horse.
 - D worm.
 - E spam.

- (viii) Amina was rewarded with a computer game DVD during her birthday. In which category does this gift fall?
- A Entertainment software and storage device
 - B Utility software and storage device
 - C Application software and storage device
 - D System software and storage device
 - E Firmware software and storage device
- (ix) A school debate club invited speakers to address issues of gender and HIV/AIDS in the school assembly hall. Speakers used a microphone, a computer and a projector to demonstrate their presentation through animations and video. What type of presentation was used in relation to the devices used?
- A Audio and sound presentation
 - B Video and text presentation
 - C Visual and text presentation
 - D Multimedia presentation
 - E Power point presentation
- (x) The following spreadsheet was prepared to show the results of the students who did three different tasks. In cell E5 an error occurred. What might be the reason?

	A	B	C	D	E	F
1	Computer Studies Task Scores					
2	Name	Task 1	Task 2	Task 3	TOTAL	AVERAGE
3	Juma	44	39	25	108	36.0
4	Emilia	37	42	30	109	36.3
5	Koku	40	39	27	#VALUE!	35.3
6	Batuli	22	40	29	91	30.3
7	Average	35.8	40.0	27.8		

- A The column is not wide enough to accommodate the value
- B The formula references an invalid intersection of cells
- C The formula uses incorrect argument or operator
- D The reference to a value is not available to a formula
- E There is invalid cell referencing in the formula used.

2. Match the following functions of Desktop Publishing (DTP) tools in **List A** to their corresponding tool names in **List B** by writing the letter of the correct option beside the item number in the answer booklet provided.

List A	List B
(i) A tool which is used for magnifying publications view.	A Shapes tool
(ii) A tool which is used to turn around text or graphics.	B Objects tool
(iii) A tool which you can use to draw passage frames, insert and manipulate passage.	C Rotate tool
(iv) A tool which can be used to pick, move and resize images and text.	D Select image tool
(v) A tool which is used to draw basic figures and importing objects.	E Select tool
	F Texted tool
	G Zoom tool
	H Text tool

SECTION B (75 Marks)

Answer **all** questions in this section.

3. The following are steps for printing a document. Study the steps carefully and arrange them in a correct order beginning with the first step to the last step and write the letter of each step in the answer booklet provided.
- A Click OK button.
 - B Click print preview.
 - C Click print from the file menu.
 - D Open a document to be printed.
 - E Select the printer.
- (5 marks)**
4. (a) Why information is important in our daily life? Give five reasons. **(5 marks)**
 (b) Explain two ways of disseminating information. Give two examples for each. **(5 marks)**
5. Suppose you have been asked to create a school database that keeps students and teachers information by using Microsoft Access. As an expert in designing database;
- (a) Explain three possible types of database model according to their data organisations. **(6 marks)**
 - (b) Which steps would you follow to establish relationship between two or more tables in the opened database? **(4 marks)**

6. Read carefully the following advertisement and then answer the questions that follow:

NYANGALUKA ACCESSORIES COMPANY LTD

OFFICE PACKAGE SALE PRICE OF COMPUTER: Tshs. 2.0 Millions

Intel (R) Core (TM) i5-6200U 2.30 GHz

8.00 GB RAM

64-bit Operating system

250 GB Hard drive 7400 rpm

21" LCD Monitor

MS-DOS

Laser printer 14 ppm

- (a) What is the name of a processor available at Nyangaluka Company? **(1 mark)**
- (b) What are the sizes of a primary memory and secondary memory offered by a company? **(3 marks)**
- (c) Assume you have requested a member of Nyangaluka company to install for you Windows 7 instead of UNIX operating system. What four benefits do you expect to get on the use of such operating system? **(6 marks)**
7. The JJ company which deals with home theater system has four offices in three different cities: Dar es Salaam, Mwanza and Dodoma. The Head of Department decided to connect all these offices through a network. However, he does not know the type of network to use.
- (a) Explain to the Head of Department three types of computer networks you know and suggest the proper type of network to be established. **(7 marks)**
- (b) Provide one advantage and one disadvantage of the type of network suggested in part (a). **(3 marks)**
8. (a) An academic master of your School asked you to prepare an end of term students' academic report using Microsoft Word. The report intends to include the table which shows different subjects and scored marks. As an IT student,
- (i) Which steps would you follow to insert a table with 10 rows and 7 columns? **(4 marks)**
- (ii) If after creating a table in part (a) (i), you realized that, the word computer is typed komputa; which feature can you use to check and correct automatically other mistakes made? **(3 marks)**
- (b) Differentiate "autoText" from "autoComplete" as used in Microsoft Word. **(3 marks)**

9. Suppose you have been sent by your parent to buy some of the household items from the shop. In order to make a clarification about the purchases, you decided to use the following worksheet for its simplicity.

	A	B	C	D	E
1	ITEM DESCRIPTION	NO. OF ITEMS	COST PER ITEM (Tsh.)	COST (Tsh.)	
2	Sugar	15	100		
3	Rice	20	150		
4	Salt	10	80		
5	Wheat flower	9	100		
6					
7	Increased Price	10%			

- (a) Which function would you apply to find the cost of sugar? **(1 mark)**
- (b) Which function will you use to find the lowest cost for all items bought? **(1 mark)**
- (c) Which function can be applied to count the number of cells that costs Tsh. 100 per item? **(1.5 marks)**
- (d) If the price of all items has been increased by 10%, which formula would you use in cell E2 in order to calculate the new cost of sugar? HINT: (The increased price should be absolute reference). **(2 marks)**
- (e) Assume your parent wants to know the increased cost, which functions and formula can you use to accomplish this task? **(4.5 marks)**
10. You are required to prepare a school presentation concerning e-learning. Explain five factors to be considered in order to prepare a quality presentation. **(10 marks)**

SECTION C (10 Marks)

Answer **one (1)** question from this section.

11. Computers are delicate devices; therefore they require to be handled with care. Describe four measures that can be taken to protect computers from damage. **(10 marks)**
12. Advancement of technology has increased the use of internet in the world which has led the creation of virtual (effective) communities' services. By giving one example for each, explain four effective services available in the society today. **(10 marks)**