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: 2022**

Instructions

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

1. Choose the correct answers among the given alternatives (A-E):

i) Which device is used to connect home computers to the internet?

A. Router

B. Gateway

C. Switch

D. Hub

E. Modem

ii) Joha wants 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

iii) What is the difference between "form" and "report" in database?

A. Report is an output while form is an input object

B. Report has header while form has footer

C. Report is an input while form is an output object

D. Report can be printed while form cannot be printed

E. Report has footer while form has header

iv) Why Charles Babbage is considered to be a forefather of computer?

A. He was a founder of analytical engine

B. He was a founder of Napier‟s bones

C. He introduced tabulating machine

D. He discovered ENIAC

E. He created punching cards

v) Which one is the correct syntax for creating a link on a web page in HTML?

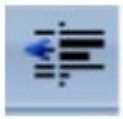
A. <LINK SRC = “abd.html”>

B. <A HREF = “abd.html”>

C. <BODY LINK = “abd.html”>

D. <A SRC = “abd.html”>

E. <LINK IMG = “abd.html”>

vi) How are the commands  and  used in Microsoft word?

A. To decrease and increase indent

B. To minimize and decrease indent

C. To reduce and raise indent

D. To raise and reduce indent

E. To maximize and increase indent.

vii) : The type of computer which is used for prediction of the weather conditions worldwide is called

A. laptop computer

B. supercomputer

C. mainframe computer

D. microcomputer

E. minicomputer

viii) Which of the following are the types of computers according to their functionality?

A. Digital and analog computers

B. Supercomputer and minicomputers

C. Hybrid and microcomputers

D. Analog and special purpose computers

E. Digital and general purpose computers.

ix) A type of multimedia which contains animations, sound and video elements is known as

A. hypertext
B. hypermedia
C. hyperlink
D. mixed media
E. visual media

x) Which Microsoft PowerPoint document views allow a user to change the position of slides?

A. Slide show and normal/slide view
B. Outline and slide show
C. Outline and slide sorter
D. Slide sorter and normal/slide view
E. Outline and normal/slide view.

2. Match the functions of software in List A with their corresponding names in List B by writing the letter of the correct response beside the item number in the answer booklet provided.

LIST A	LIST B
i) A special program that makes certain services of computing goes on smoothly. ii) A set of complex program that manages input, output and storage operations in a computer. iii) A program that is designed to help a user to accomplish specific tasks. iv) A type of software which is used to establish communication between two or more computers. v) A type of system software which is recorded permanently on an electronic chip.	A. Operating system B. Malware C. Application software D. Open source software E. Firmware F. Utility software G. Storage software H. Networking software

SECTION B (75 marks)

Answer **all** questions from this section

3. Re-arrange the given sentences in a sequential order beginning with the first step to the last step.

   A. Click tools and then click backup now.

   B. In the properties dialog box, click tools.

   C. In my computer window, right click the Local Disk (C:).

   D. From the shortcut menu, click properties.

   E. Open my computer.

4. (a) Joshua has a problem when typing. Every time he wishes to type the word "Goods", he mistakenly types "Gods". How can he assure himself that he has written the word Goods correctly without reading the whole document?

   (b) Explain the procedures of inserting "page number" and "header and footers" into a Microsoft word document. Give the importance of each.

5. Study carefully Figure 1 and then answer the questions that follow

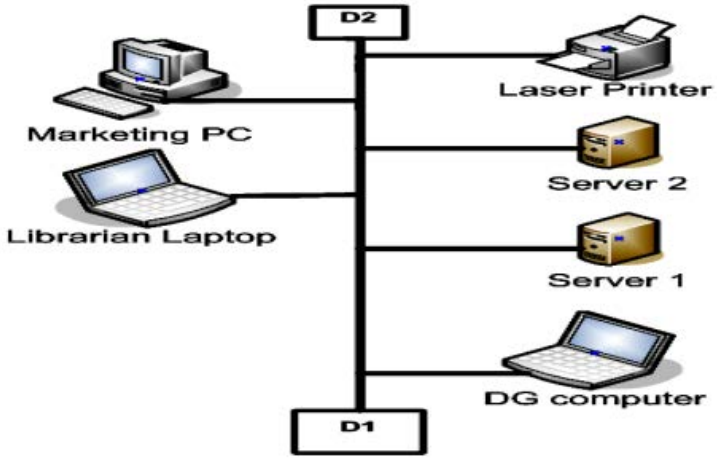


Figure 1

a) What is the type of the network presented in Figure 1? Explain three disadvantages of using this kind of network.

b) Which device should be connected at D2? Give one importance of this device.

c) What will happen when a cable between the printer and marketing PC breaks?

6. In a survey conducted on the flood which occurred in Tanzania in 2018, a worksheet was designed to record the height of flood as reported from different places around the country. The data is entered in the following worksheet. Study the following worksheet and then answer the questions that follow:

	A	B	C	D
1	**Tanzania Floods in 2018**			
2	**Sites**	**Floods Height (cm)**	**Damage**	**Lives Loss**
3	Kigogo	600	Yes	
4	Msimbazi	650	Yes	
5	Kitunda	500	Yes	
6	Tegeta	400	Yes	
7	Wazo	350	Yes	
8	Liwale	59	No	
9	Mbeya	45	No	

a) What are the cell references of Sites, Floods Height, Damage and Lives Loss? Give the name of the formatting done in row 1.

b) It was noted that the flood with a height of 200 cm or above had caused the loss of lives. Write an IF function to be used in cell D3 which will display "Yes" or "No" according to the given flood height.

c) Which function can you apply to find the number of sites surveyed?

d) Suppose you are required to generate a pie chart that displays the names of the site and the floods heights, which steps would you follow to generate the pie chart?

e) If the value in cell B4 is to be changed to 115, how many cells altogether will change?

7. (a) What is search engine as used in ICT?

(b) Email is one of the methods used to spread viruses. Briefly explain other four

limitations of using email as a means of communication.

8. (a) Bahati wishes to create his own business card but he does not know the appropriate software to use. Which four software would you advice him to choose?

   (b) Most of Desktop Publisher software have various tools for designing, manipulating and editing a publication. What are the functions of three common tools provided in the Microsoft Desktop Publisher?

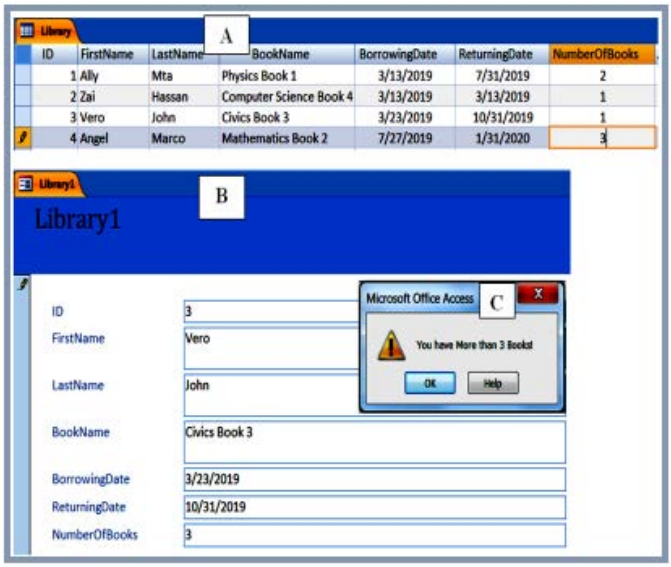
   (c) Suppose you have been given a task to insert a clip art graphic into a publication in Microsoft Publisher, which steps would you follow to perform the given task?

9. (a) A librarian at your school wants to change the students and teachers‟ record keeping system from manual to electronic database. He proposed the type of database which contains tables.

   i) Identify the name of the database model proposed.

   ii) Provide three advantages of a new system of record keeping.

   (b) The following snapshot shows information about students who borrowed different books from the school library. Study carefully the objects given and then answer the questions that follow:



i) What are the objects labelled with letters A and B? Give their names.

ii) Why is an object B very important in creating the database?

iii) Write the validation rule and the validation text used in the „NumberOfBooks“ field.

10. Draw a well labelled diagram of the functional elements of the Central Processing Unit (CPU) and explain the function of each element.

SECTION C (10 marks)

Answer **one (1)** questions from this section

11. Explain four factors which can be considered during preparation of a presentation.
12. Multimedia is very popular in designing advertisements and website nowadays. Explain four advantages of using multimedia in web designing.