

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

Friday, 15th November 2019 p.m.

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. Cellular phones and any unauthorised materials are **not** allowed in the examination room.
4. 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) How can you classify the laptop and desktop computers?
A Portable computers. B Microcomputers.
C Supercomputers. D Minicomputers.
E Expensive computers.
- (ii) The database object that enables you to view and print data from a database table in a chosen appearance is called
A a form. B a query.
C a macro. D a table.
E a report.
- (iii) The problem of eye strain which is caused by spending a lot of time on using computers can be minimized by
A taking regular breaks and using antiglare screen.
B using adjustable monitor stands and keyboards.
C adopting a healthy sitting style.
D drinking sufficient amount of juice every time.
E using adjustable chairs and footrests.
- (iv) Which program would you use in preparing a presentation with some animations?
A Microsoft excel B Microsoft word
C Microsoft access D Microsoft power point
E Microsoft publisher
- (v) Which keyboard keys are referred to as special purpose keys in a Personal Computer?
A F1, F2, F3 up to F12 B A to Z, Tab, Caps lock and 0-9
C Arrow keys, Tab and Home key D Shift, Ctrl, Alt and ESC
E Del, backspace and pg-Dn
- (vi) Which printer would you suggest for printing school examinations?
A Thermal printers B Photo printers
C Plotter printers D Dot matrix printers
E Laser printers
- (vii) Word processor supports enhancement of the document appearance to make font type and font style more appealing. What action classifies this feature of a word processor?
A Creating document B Editing document
C Formatting document D Manipulating document
E Decorating document

(viii) Which tag would you use to emphasize the heading of the article in the webpage?

- A <head></head> B <title></title>
C <hr></hr> D <h1></h1>
E <th></th>

(ix) What is the alternative name of Utility Program?

- A Operating program B Application program
C Software program D Interface program
E Service programs

(x) Which device would you use to connect ten computers so that they can share the same bandwidth?

- A Switch B Hub
C Router D Gateway
E Modem

2. Match the following descriptions of text alignment used in Microsoft word in **List A** to their corresponding types of alignments 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) Lines of text lined up equally along the left margin but unequally at the right margin.	A Hanging alignment
(ii) Lines of text lined up equally along the right margin but unequally at the left margin.	B Justify alignment
(iii) Lines of text arranged equally along both left and right margin.	C First line alignment
(iv) Lines of text arranged equally along both left and right margin even if a line has only few words.	D Center alignment
(v) The lines of text kept at the middle unequally between the left and right margins.	E Left alignment
	F Full alignment
	G Right alignment
	H Force justified alignment

SECTION B (75 Marks)

Answer **all** questions in this section.

3. The following are steps for composing and sending an e-mail message. Study the given 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 Type the message in the text box.
 - B Type the recipient address or get it from the address book.
 - C Click the send button.
 - D Click the compose button.
 - E Type the subject of the message.
- (5 marks)**
4. Suppose you are told to prepare an invitation card and a monthly calendar that will be used during academic exhibition day in your school:
- (a) Which software would you use in your preparation? Give a reason. **(3 marks)**
 - (b) Which steps would you follow to insert the date in the invitation card? **(3 marks)**
 - (c) Apart from invitation card and a calendar, what other four publications can be designed by using the software you mentioned in (a) above? **(4 marks)**
5. You are employed in a certain company as a computer network expert and you have been reported with the problem that there is no network in all offices for the whole company. When investigating the problem, you discovered that the computers are arranged as shown in Figure 1. Study the Figure then answer the questions that follow;

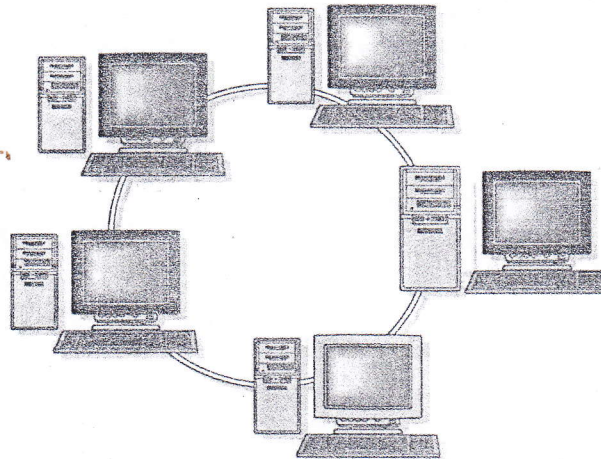


Figure 1

- (a) What is the type of the network topology used by the company? Explain three disadvantages of using this kind of a network. **(4 marks)**
- (b) Suggest the proper type of network topology that will help the company and address three advantages that a company will get by using the proposed topology. **(6 marks)**

The following spreadsheet shows the Form Four results of a certain Secondary School. Study carefully the given worksheet and answer the questions that follow:

	A	B	C	D	E	F	G	H	I
	S/N	NAME	PHYSICS	CHEMISTRY	COMPUTER	MATHEMATICS	AVERAGE	GRADE	POSITION
1									
2	1	Adallah	68	64	60	69	65.3	B	2
3	2	Ally	50	45	52	68	53.8	C	5
4	3	Angel	35	40	36	62	43.3	C	7
5	4	Ismail	45	50	40	67	50.5	C	6
6	5	Issa J.	58	65	80	57	65	B	3
7	6	Jema	65	70	61	58	63.5	C	4
8	7	Rachel	98	75	85	80	84.5	A	1

Hint: (The grade is "A" if the average is ≥ 75 , "B" if the average is ≥ 64 and "C" if the average is ≥ 45).

- (a) Which steps would you follow to align the heading in the worksheet vertically? (2 marks)
 - (b) Suppose you want to validate the marks to be entered by a user to whole number from 0 to 100 inclusive; which steps would you follow to accomplish this task? (3 marks)
 - (c) Which functions were used to assign grade and position? (4 marks)
 - (d) Which function was used to calculate the average marks? (1 mark)
- 7.
- (a) Differentiate digital computers from analog computers. (2 marks)
 - (b) By giving two examples, explain special purpose computers. (3 marks)
 - (c) The headmaster of a certain Secondary School preferred to buy a computer for his office activities. Based on the advice given, he decided to buy a supercomputer. As an IT expert, do you think the headmaster got the correct advice? Give two reasons for your answer. (5 marks)
- 8.
- (a) Differentiate each of the following concepts as used in databases:
 - (i) Validation rule and Validation text.
 - (ii) Select query and Action query. (4 marks)
 - (b) An electronic database depends on a database management system (DBMS). Why do you think the DBMS is important software in developing electronic databases? (2 marks)
 - (c) Consider you have been given a database that is not safe due the lack of protection. Which steps you would use to protect a database by using a password? (4 marks)
- 9.
- (a) What HTML tags can be used to link the following?
 - (i) An image "log.gif" (1 mark)
 - (ii) A page "home.html" (1 mark)

- (b) Study the following HTML codes and give the output expected.

```
<html>
<body>
<h2> Welcome to the ICT World</h2>
Name:<input type="text" name="uname"><br><br>

Gender:<input type="checkbox" name="unradio" value="Fmale">Female
<input type="checkbox" name="uadio" value="male">Male<br><br>
Married:<input type="radio" name="unradio" value="Female">Yes
<input type="radio" name="unradio" value="Female">No <br><br>

Comments: <br>
<TEXTAREA NAME="Comments" WRAP></TEXTAREA><br><br>

Submit information :<input type="submit" value="Send"><br>

</body>
</html>
```

(8 marks)

10. (a) Form Four students in your neighbour secondary school are expecting to conduct their graduation ceremony. They are required to give a presentation on their success in the four years of study in secondary education. The students asked you to prepare an animated script with a combination of their pictures, text that describes the pictures and a background sound related to the content.
- (i) What concept does animated script prepared represent? (1 mark)
- (ii) Which one out of images, text and sound consumes a small space in a storage media? (1 mark)
- (b) Explain the usefulness of the combination of pictures, text and sound in education, public places, industry and medicine. (8 marks)

SECTION C (10 Marks)

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

11. Suppose you were given an opportunity to speak to your fellow students on the motion which states that "Internet causes more harm to students than benefit". Explain four points that you would use to support this motion. (10 marks)
12. Vitabu Secondary School stores examination results and students' reports in the academic dean's computer. The academic dean doesn't know the risk behind keeping schools' important information in her computer without backup. Explain four risks the school faces by not creating a backup. (10 marks)