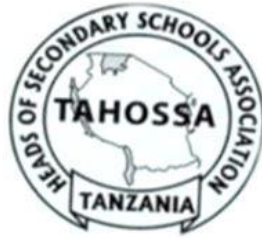


THE UNITED REPUBLIC OF TANZANIA
TANZANIA HEADS OF SECONDARY SCHOOLS ASSOCIATION
(TAHOSSA)



BARIADI TOWN COUNCIL
FORM FOUR TAHOSSA JOINT EXAMINATION
036 INFORMATION AND COMPUTER STUDIES 1

TIME: 3 Hours

September: 2022

Instructions

1. This paper consists of sections **A, B** and **C** with a total of twelve (12) question
2. Answer **all** question in section **A** and **B** and one(1) question in 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 examination room
5. Write your examination number on every page of your answer sheets

This paper consists 7 printed pages

SECTION A: (15 Marks)

Answer **all** question from this section.

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

- (i) Producing publications that are attractive with creative layouts and graphics like newspapers, cards, pamphlets and pictures need special software, the following are examples of Desktop publishers except?
- A. Adode In design
 - B. Adobe PageMaker
 - C. Apple page2
 - D. Open Office writer
- (ii) The teacher grouped form four students to discuss advantages of modern ways of information dissemination over traditional ways what kind of source of information the student used during discussion.....
- A. Primary
 - B. Secondary
 - C. Direct
 - D. Indirect
- (iii) A headmaster was scheduling school daily routine on a computer suddenly the power went off and after reopen his computer did not find his work, as ICT expert what handling measure was the headmaster to use
- A. Voltage Stabilizer
 - B. Uninterruptible power supply
 - C. Surge protect
 - D. Socket
- (iv) What has been done at cell address C1

	A	B	C
1	S/N	REGIONS	NUMBER OF EMPLOYEES

- A. Cell merge
 - B. Italicized text
 - C. Wrap text
 - D. Underlined text
- (v) An editing tool that help a user to find words of phrases with similar meaning or opposite meaning to text selected is called
- A. Spelling and grammar checker
 - B. Autocorrect
 - C. Auto complete
 - D. Thesaurus
- (vi) Which of the following is not among the field data type used in creation of Microsoft database

- A. OLE Object
 - B. Date/time
 - C. Format
 - D. Memo
- (vii) A template that is used to set fonts, colors, bullets footers and action buttons for the other slides in presentation is known as
- A. New slide
 - B. Slide Master
 - C. Slide layout
 - D. Hyperlink
- (viii) is a method of transmitting the information on the web.
- A. Hypertext transfer protocol (HTTP)
 - B. Transmission and Control Protocol/Internet Protocol (TCP/IP)
 - C. File Transfer Protocol (FTP)
 - D. Internet Protocol (IP)
- (ix) Form four students have prepared three songs for graduation each song has storage space of 800 Mbs which storage device would be suitable to keep their songs for graduation?
- A. CD R
 - B. DVD R
 - C. 2 GB flash
 - D. CD RW
- (x) Computers connected to communication networks, such as the Internet, are particularly vulnerable to electronic attack because so many people have access to them, what a security measure may be used to protect these computers.
- A. Passwords
 - B. Approved users
 - C. Encryption
 - D. Firewalls

2. Match the following terms in **List A** to their corresponding description of field properties in **list B** by writing the letter of the correct option in beside the item number in your answer sheet.

LIST A	LIST B
i. Format	A. For number and currency specifies the number of decimal places B. A message tha appears once the validation rule is violated C. This is a value that appears automatically in the datasheet/form if nothing is entered by the user to change it. D. Facilitates the organization of records for easy search.
ii. Validation rule	
iii. Indexed	
iv. Default value	
v. Input mask	

	E. Determines how information appears on the screen when printed F. Allows the user to set the number of characters in a field instead of the default 50 G. Logical expression that restricts the values to be entered in a field. H. Automatically formats the field entry into specified format
--	---

SECTION B (75 Marks)

Answer **all** question from this section.

3. The following are steps for page setup to enhance printing processes of worksheet. 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 your answer sheet.

- A. Click on margins tab to change margins
- B. When you finish click ok
- C. Click page setup
- D. Click file on the menu bar (5 marks)**
- E. Click on page tab to make changes of a page such as scaling and printing orientation

Steps	1 st	2 nd	3 rd	4 th	5 th
Letter					

4. Suppose you have been asked to type an essay to explain the importance of Information on the society on Microsoft word processor.

- a) Describe any two(2) basic input devices to use in writing an essay **(2 marks)**
- b) Explain any four(4) functions of input devices **(6 marks)**
- c) Differentiate impact printer from non-impact printer **(2 marks)**

5. (a) Assume a teacher at your school want to surf on internet materials for information and computer studies on Electric mail system.

- (i)** List any four (4) search engine will enable a teacher to accomplish his/her task **(2 marks)**

- (ii)** List four (4) things required by a teacher to connect internet. **(2 marks)**

- (b)** Explain four services provided by the internet to Tanzania society **(6 marks)**

6. A spreadsheet was set up to compare passenger costs for five airlines.

	A	B	C	D	E
1	Flight id	Distance (km)	Number of passengers	Total revenue (\$)	Cost per passenger (\$)
2	AA 151	3 000	240	60 000	250
3	AT 304	2 000	320	80 000	250
4	BR 106	1 500	150	45 000	300
5	CD 221	8 000	400	360 000	900
6	EX 115	6 000	280	140 000	500
7				Average cost:	

- (a) What formula must be in **E2** to calculate the cost per passenger. (1mark)
- (b) Cell **E7** is to contain the average passenger cost. What formula would need to be placed in this cell? (2marks)
- (c) It was decided to add two new columns (**F and G**) to find out if the airline made a **profit** or **loss** on each flight. The costs per flight are calculated by multiplying Distance (**km**) by 1/10th of the Number of passengers.
- (i) What formulas must be in column **F**? (2marks)

	F
1	Flight costs (\$)
2	
3	
4	
5	
6	

- (ii) The formula = IF (**F2 > D2**, “Loss”, “Profit”) was added to cell **G2**. What would be output? (3marks)
- (iii) What formula would be in **G5** after replication down from **G2**? (2marks)
7. An airport has a number of hotels nearby. A database has been set up to give customers information to allow them to select a hotel.

Hotel Ref	Name of hotel	No. of stars	No. of rooms	Hotel parking	Price per person (\$)	Distance from airport (km)
H41	The Grand	3	45	Y	65	11
K22	Sleepy Inn	2	15	N	45	10
N15	Britannia	5	140	Y	150	4
L44	Beach Hotel	4	62	N	85	8
H30	Sea View	3	38	N	60	4
H21	Pyramid	3	25	N	70	5
N21	Superior	5	120	Y	200	2
K14	Travellers	2	15	N	45	10

- (a) How many records are shown in the database? (1mark)
- (b) Which field in each record must be unique? (1mark)
- (c) The following search condition was typed in:
(No. of stars > 3) OR (Hotel parking = Y) Using **Hotel Ref** only, which records would be found? (3 marks)

- (d) Write down the search condition to find which hotels were less than 10 km from the airport and charged under \$100 per person. **(3 marks)**
- (e) The database was sorted into descending order using **No. of rooms**.
Using **Hotel Ref** only, write down the sorted order of records. **(2 marks)**
- A spreadsheet was set up to compare passenger costs for five airlines.
8. (a) Explain four advantages of Desktop Publishers over word processors **(6marks)**
(b) Give four (4) examples of Publications designed using Desktop Publishing Software **(4 Marks)**
- 9 .(a) Describe a multimedia system **(2 marks)**
(b) Explain four (4) features of multimedia system **(8 marks)**
- 10.(a) Rock-ICT has set up a website as shown below:

The screenshot shows a website titled "ROCK - ICT". The navigation bar includes links for Home, Sales, Basket, Checkout, and Payment. The Payment page is active. Below the navigation bar, there is a section titled "Choose your payment method:" with two radio buttons: "credit card" (selected) and "debit card". At the bottom of this section, there is a link that says "click here to go to CD website".

Labels (i), (ii), and (iii) point to different parts of the website:

- (i) points to the main content area.
- (ii) points to the "Payment" link in the navigation bar.
- (iii) points to the "click here to go to CD website" link.

- (i) Give the names of the three parts that have been labeled (i , ii ,iii): **(3 marks)**
- (ii) How does the website recognise the user's buying preferences as soon as they visit the website? **(1mark)**
- (iii) Hacking is one security issue associated with the Internet and emails. State two other security issues. **(2marks)**
- (b) Write the output for following html codes **(4marks)**

```
<html>
<title>Registration page</title>
<body>
<h1>Students Arriving Registration Form Version 3.2</h1>
<form>
Name: <input type="text" name="name"><br>
E-mail: <input type="text" name="email"><br>
<p>Arriving on:
<Select Name="Arrival Day">
<Option Value="1">Saturday</Option>
<Option Value="2">Sunday</Option>
<Option Value="3">Monday</Option>
<Option Value="4">Tuesday</Option>
<input type="submit">
</form>
</body>
</html>
```

SECTION C (10 Marks)

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

11. One among the factors to consider when buying a computer is operating system, its compatibility and friendliness to the user. Explain four types of operating systems.

(10 marks)

12. The accessibility of Information and Communication Technology tools has affected the system of information security. Describe any four(4) measures to protect information

(10 marks)