



**036/1**

**TANZANIA HEADS OF ISLAMIC SCHOOLS COUNCIL  
FORM FOUR INTER ISLAMIC MOCK EXAMINATION**

**INFORMATION AND COMPUTER STUDIES 1**

**(For Both School and Private Candidates)**

**TIME: 3 HOURS**

**Tuesday 29<sup>th</sup> August, 2023 p.m.**

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**Instructions**

1. This paper consists of Section A, B and C with a total of twelve (12) questions.
2. Answer all questions in section A, B and two questions in section C in answer sheet provided.
3. Calculator, cellular phones and any unauthorized materials are not allowed in the examination room.
4. Write your examination number on every page of your answer booklet(s).

### 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. Cell A4, A7, C4, C5 and C7 contain values 4,4,9,2 and 3 respectively. Then in cell D78 a formula, =C5\*(A4+A7) – (C4/C7) is entered. What will be the value of cell D78?
    - A. 10
    - B. 12
    - C. 11
    - D. 13
  - ii. Communication channel between the user and application program that provides information such as current page, current page, current section, total number of pages, total number of words, the language used, current line number and current column number.
    - A. Title bar
    - B. Menu bar
    - C. Document window
    - D. Status bar
  - iii. 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. Multimedia presentation
    - B. Power point presentation
    - C. Visual and text presentation
    - D. Video and text presentation.
  - iv. 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	<b>Computer Studies Task Scores</b>					
2	<b>Name</b>	<b>Task1</b>	<b>Task2</b>	<b>Task3</b>	<b>TOTAL</b>	<b>AVERAGE</b>
3	<b>Jumma</b>	44	39	25	108	36.0
4	<b>Emilia</b>	37	42	30	109	36.3
5	<b>Koku</b>	40	39	27	#####!	35.3
6	<b>Betula</b>	22	40	29	91	30.3
7	<b>AVERAGE</b>	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

- v. The circuit that provides a pathway that connects the various system components
  - A. PCMCIA channel
  - B. Bus
  - C. SCSI device
  - D. Information superhighway
  
- vi. How would you explain the reasoning behind the term” monitor” being used to refer to a display screen?
  - A. It displays the monitor lizard
  - B. It monitors users
  - C. It helps the user to track what is going on in the computer
  - D. It is television.
  
- vii. Given a specific computer memory disk, can you accurately calculate the amount of disk space that will be occupied by the word “DAR”?
  - A. 3 bits
  - B. 6 bits
  - C. 17 bits
  - D. 24 bits
  
- viii. What is your knowledge and experience with the scanning technology commonly used in banks to accurately read and process the numbers located at the bottom of checks?
  - A. MICR
  - B. OCR
  - C. OMR
  - D. GRE
  
- ix. Can you demonstrate your knowledge of computer networking by correctly identifying the term used to describe the global interconnection of computers?
  - A. WAN
  - B. Internet
  - C. Intranet
  - D. MAN
  
- x. The information is communicated so that a recipient of the information has enough time to decide appropriate actions based on the information received.
  - A. Reliability
  - B. Timeliness
  - C. Understandable
  - D. Relevant

2. Match the description of landmasses given in **LIST A** with its corresponding responses in **LIST B** by writing the letter of correct answer in answer booklet.

<b>LIST A</b>	<b>LIST B</b>
<b>i).</b> Memory devices which are becoming unpopular due to the entry into market of affordable mass storage. <b>ii).</b> Memory storage whose content can be accessed and read but cannot be changed. <b>iii).</b> The memory which can be written only once by the user after which it cannot be changed again. <b>iv).</b> Working storage that is used to hold instructions and data needed by the currently running application. <b>v).</b> Non-volatile storage media that employs integrated circuits rather than mechanical or optical technology. <b>vi).</b> Computer storage where data is written and read from them uses a laser beam.	<b>A.</b> Removal storage <b>B.</b> PROM <b>C.</b> Flash disk <b>D.</b> Buffer storage <b>E.</b> Register <b>F.</b> Permanent storage <b>G.</b> ROM storage <b>H.</b> Volatile storage <b>I.</b> Real storage <b>J.</b> RAM storage <b>K.</b> Floppy disks <b>L.</b> Optical storage <b>M.</b> Non- volatile storage <b>N.</b> Digital Versatile Disks

### SECTION B (54 Marks)

Answer **all** questions in this section.

3. Fill in the blanks with the following giving words. **(5 marks)**

<b>HTML</b>	<b>Closing</b>	<b>website</b>	<b>Markup</b>
<b>&lt;body&gt;</b>	<b>Webpage</b>	<b>image</b>	<b>tag</b>

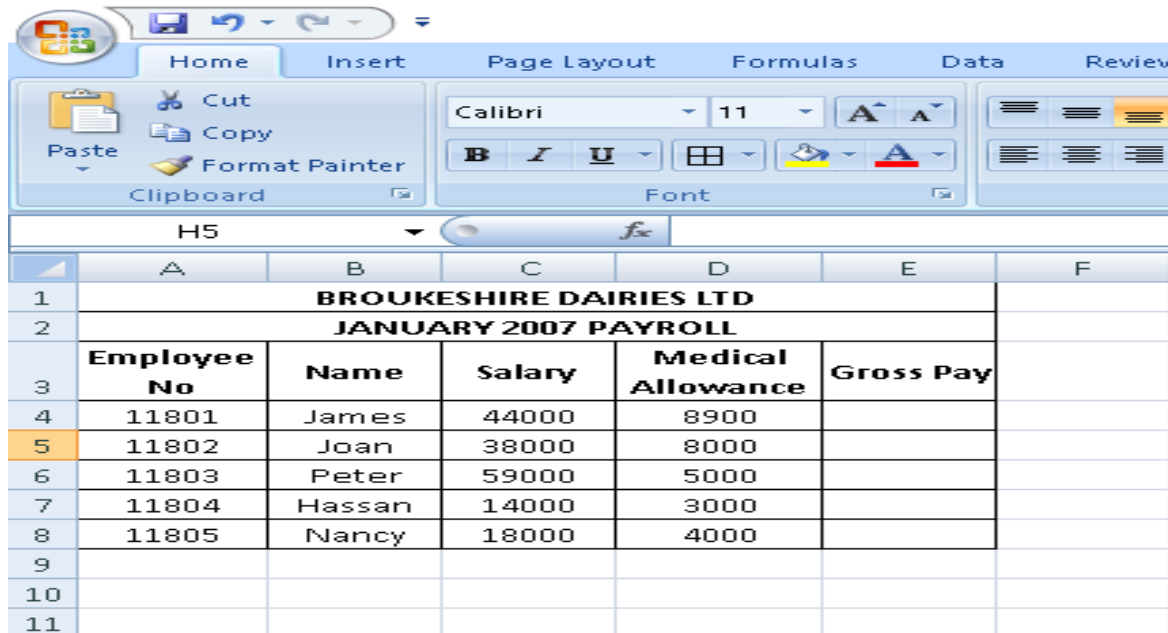
- A \_\_\_\_\_ is a group of Webpages that are connected together.
  - A \_\_\_\_\_ is an instruction written in a text file that is given to the web browser.
  - A \_\_\_\_\_ is part of a website that contains specific information.
  - The \_\_\_\_\_ tag contains all the contents of an HTML page, such as text, images, videos and hyperlinks.
  - A tag can be an opening tag or a \_\_\_\_\_ tag.
4. (a) We cannot do anything and we cannot get correct message if there is no information in our daily life, we can get information through different sources.
- Mention sources of Information **(1 mark)**
  - Define sources in 4(i) above and give two examples each. **(4 marks)**
- (b) i. How we can explain communication media in our environment? **(1 mark)**

- ii. With the help of diagram define the components of communication media  
(3 marks)
5. In computer network **Data Communication** is very important. What is the meaning of the following **TERMS** that are used in Data Communication?  
(@2 marks)
- Bandwidth
  - Attenuation
  - Simplex transmission
  - Baseband signal
  - Full duplex transmission.
6. A computer club keeps member information on a computer system (database). Part of the member table in the database is as shown in the diagram below.

CODE	SURNAME	LOCATION	SEX	PHONE NO	DOB
S 1001	MABUMBA	TANGA	F	56782	11/12/86
S 1011	KIUNDU	MOSHI	M	4523561	4/01/88
S 1025	GALIMOSHI	DAR	F	355123	15/05/86
S 1037	SEMAINDA	MUHEZA	M	406021	18/02/87
S 1057	NYENGE	DODOMA	M	123489	21/07/86
S 1075	TAUSI	LINDI	F	801267	09/02/88
S 1096	TEWA	PWANI	M	89541230	03/09/87
S 1102	TAMBAZA	DAR	M	3541239	22/04/88
S 1124	KARAKAYA	ARUSHA	M	5431291	14/04/86
S 1139	MWINYI	MWANZA	F	2090807	09/04/88

- State how many fields are there in each record  
(1 mark)
- State the data type that should be used for the code data  
(1 mark)
- Give 2 reasons why the data in “sex” field has been coded  
(2 marks)
- Which code data will be listed if (DOB < 01/01/87 and SEX = “M”) condition is set?  
(2 marks)
- Which field in the table should be used as a key field? Why?  
(2 marks)
- How many records are in this table?  
(2 marks)

7. The picture below shows the salary slips of BROUKESHIRE DAIRIES LTD. Answer the following questions:



BROUKESHIRE DAIRIES LTD				
JANUARY 2007 PAYROLL				
Employee No	Name	Salary	Medical Allowance	Gross Pay
11801	James	44000	8900	
11802	Joan	38000	8000	
11803	Peter	59000	5000	
11804	Hassan	14000	3000	
11805	Nancy	18000	4000	

- Name the software used to create the above picture (1 mark)
  - What is the name of the active cell? (1 mark)
  - Write the feature(s) used in row 1 and 2 to make the text appear as a single cell in columns A-E. (1 mark)
  - Using appropriate functions:
    - Calculate the gross pay of Nancy. (1 mark)
    - Calculate the total of Medical allowance which is above 5000. (2 marks)
    - Determine the highest Salary and the lowest Gross Pay. (2 marks)
    - How many employees get Salary above 30000 (2 marks)
8. a) In our environment nowadays we cannot escape the availability of multimedia. Can you tell us how do you understand about multimedia? (1 mark)
- b) List basic elements of Multimedia. (1 mark)
- c) The World nowadays needs a lot of effort in order to make sure that there is enough multimedia in order to simply life and communication in the society Briefly explain any four points from the above statements about multimedia to the society. (4 marks)
- d) Describe two types of multimedia content and give an example of each. (4 marks)
9. (a) What is Utility program? (1 mark)
- (b) Defrag (defragmentation) and antivirus are two important utilities. Briefly describe their functions. (2 marks)
- (c) Put the following in order of their size, starting with the smallest. (4 marks)  
**Megabyte, Bit, Terabyte, Kilobyte, Gigabyte, Nibble, Byte and Petabyte**
- (d) With reference to Megabytes, Bytes and Kilobytes: State which of these units is most appropriate for the following items data. (3 marks)

- A one page text document
- A ten minute movie clip
- A person's surname.

### **SECTION C (30 Marks)**

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

10. Rapid development of technology has brought many positive impacts in the societies, but also there are negative impacts. Explain five health hazards facilitated by the use of ICT.
11. During the development of computer, different scientists contributed much to make sure that computers are portable. Hence we reached to a point of recognizing Charles Babbage as a father of computer. With this context write an ESSAY based on history of computer, explain computer evolution, explain why Charles Babbage is a father of computer and hence discuss the five generations of computer based on time and used technology.
12. Hamis was invited to a certain school to present the effects of COVID- 19 to people health.
  - i. Describe any four factors he should consider before doing the presentation.
  - ii. Explain any four presentation skills he should have.
  - iii. State any two presentation methods and explain which one he should use