

**MINISTRY OF EDUCATION AND HIGHER EDUCATION
PUNTLAND NATIONAL EXAMINATIONS BOARD**

Name of Student			
Roll Number			
Name of School			
Region:		District:	

**FORM FOUR EXAMINATION, 2023
TIME: 2 HOURS AND 10 MINUTES FOR READING**

ICT

Instructions to candidates

- Answer all the questions
- This paper consists of 10 pages, count it and if any is missing inform your invigilator
- Write your **name and roll number** on the exam paper
- No extra paper is allowed.
- If you make a mistake, **cross out the incorrect** answer and **write your correct answer**.

This exam paper consists of following Parts

Parts	Marks
Part one: Multiple Choice	34 marks
Part two: Structured Questions	66 marks
Total:	100 Marks

For the markers only

PARTS	MARKS
Part one:	
Part two	
Total:	


Puntland National Examination Board


Use this page for rough work. It will NOT be marked.

This image shows a single sheet of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.

PART ONE MULTIPLE CHOICE QUESTIONS: (34 MARKS)

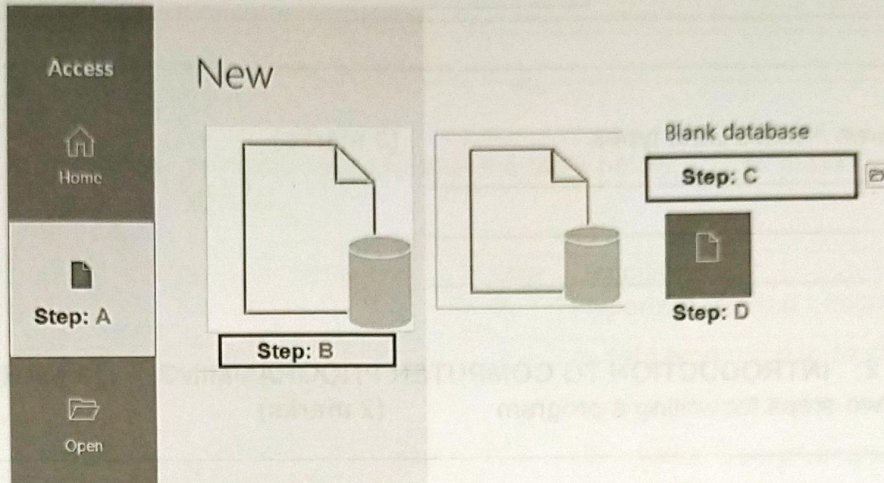
Instructions for this section, Circle the correct answer from A, B, C, D.

1. Which of the following is a collection of related information that can easily be stored?
 - A. Dataset
 - B. Database
 - C. Data collection
 - D. Data code
2. Group of related records and fields is a:
 - A. Relationship
 - B. Column
 - C. Table
 - D. Row
3. In Microsoft Access, the database object that provides a user interface for a database is a:
 - A. Form
 - B. Report
 - C. Query
 - D. Data type
4. Two types of form controls in Microsoft Access are:
 - A. Primary and Foreign
 - B. Column and Row
 - C. Field and Record
 - D. Bound and Unbound
5. In computer programming, the term Algorithm means:
 - A. Looking for standard features and common solutions to specific issues
 - B. Developing step by step instructions and writing procedures to solve problem
 - C. Analyzing and organizing data to a conceptual model in a real-time world.
 - D. A way to generate reports based on data in a table or query
6. In flowchart designs, this symbol represents as:
 - A. Termination Symbol
 - B. Decision Symbol
 - C. Connection Symbol
 - D. Input Symbol
7. Two types of multimedia are:
 - A. Numbers and characters
 - B. Linear and non-linear
 - C. Video and audio
 - D. Pictures and media
8. Which one of these options is a high-level programming language?
 - A. Assembler
 - B. Java
 - C. Binary
 - D. DOS
9. The data type that stores non fractional numbers (whole numbers) is:
 - A. Floating data type
 - B. String data type
 - C. Integer data type
 - D. Boolean data type

10. Which one is a programming language used for creating interactive web pages?
- A. JavaScript
B. Perl
C. Cobol
D. Visual Basic
11. Microsoft Photo Application is?
- A. A photo editing software
B. A video editing software
C. A web development software
D. A programming language
12. Which operating systems support Microsoft Photo Application?
- A. macOS
B. Linux d. Android
C. Windows 7 and higher
D. Android
13. In flowchart designs, this symbol represents as:
- A. Termination Symbol
B. Decision Symbol
C. Connection Symbol
D. Input Symbol
- 
14. Which file formats are supported by Microsoft Photo Application?
- A. PDF and SVG
B. MP4 and AVI
C. TXT and DOCX
D. JPEG and PNG
15. What is the purpose of the <html> tag in HTML?
- A. To define a section of a document
B. To define a hyperlink
C. To define the beginning of an HTML document
D. To define a form
16. The used to define HTML title is:
- A. <head>
B. <title>
C. <body>
D. <footer>
17. Which of the following jobs is NOT typically found in the ICT industry?
- A. Software developer
B. Network engineer
C. Electrician
D. Cybersecurity analyst

PART TWO: STRUCTURAL QUESTIONS (66 MARKS)**QUESTION 1: MICROSOFT ACCESS DATABASE****(12 MARKS)**

A) The diagram below shows the steps of how to create blank database in Microsoft Access



Name the Steps labeled A-D. **(4 marks)**

Step: A _____

Step: C _____

Step: B _____

Step: D _____

B) The diagram below shows list of student information **(3 marks)**

File	Home	Create	External Data	Database Tools	Help	Table Fields	Table	
View	Paste	Cut	Filter	Ascending	Selection	Refresh	New	Totals
		Copy		Descending	Advanced		Save	Spelling
		Format Painter		Remove Sort	Toggle Filter	All	Delete	More
Views	Clipboard			Sort & Filter				Records

ID	Student ID	Student Name	Mother Name	Age	Click to Add
2	C21-100	Mohamed	Fadumo	20	
3	C21-101	Sabirin	Nadiifo	0	
*	(New)			0	

How can you sort student's name in Access Database?

C) How can you open an Access database in Microsoft Access? (2 marks)

D) List three Access Data types (3 marks)

- i. _____
- ii. _____
- iii. _____

QUESTION 2: INTRODUCTION TO COMPUTER PROGRAMMING (16 MARKS)

A) write two steps for writing a program (2 marks)

B) Fill in the following blanks with the appropriate words from the box

(3 marks)

- Computer Program
 - Computer Programmer
 - Computer Programming Language

- i. _____ It is a procedure and method used to develop the software programs
- ii. _____ it is executions that cause the computer to behave and work well
- iii. _____ The person who writes instructions that tells the computer what to do

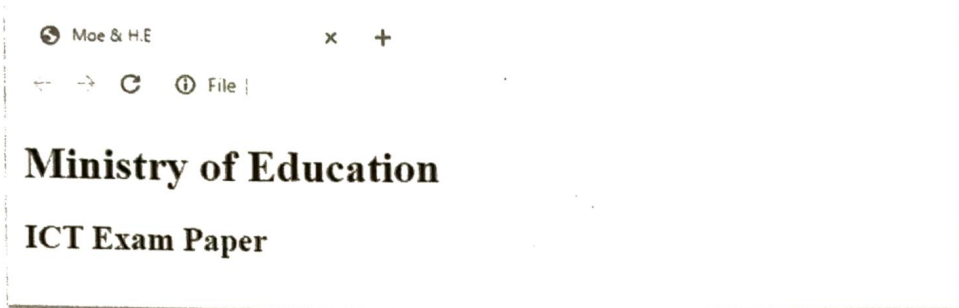
C) Define variable in programming languages? (1 mark)

D) Match the terms with their definitions in the table below. (5 marks)

First one is done for you.

No	Term or word	Answer	Letter	Definition
1.	SQL	C	A.	Hypertext Markup Language
2.	Swift		B.	Is data type used to store a character consisting text and numeric values.
3.	HTML		C.	Structured Query Language
4.	String		D.	Is a programming language used for machine learning application and statistical analytics.
5.	R Language		E.	Was created by Google to be system-level programming language.
6.	Go or Golang		F.	Is used to create apps for mac computers and Apple mobile devices.

E) The below diagram shows HTML page



Create the HTML code of the above page containing tags (header, title, body, h1, h2)
(5 marks)

N.B: Title: Moe & H.E

h1: Ministry of Education

h2: ICT Exam Paper

A large empty rectangular box for writing the HTML code.

QUESTION 3: INTRODUCTION TO MULTIMEDIA**(20 MARKS)****A) Explain the fundamental concepts of multimedia and hypermedia****(2 marks)**

B) list the five components of Multimedia systems**(5 marks)**

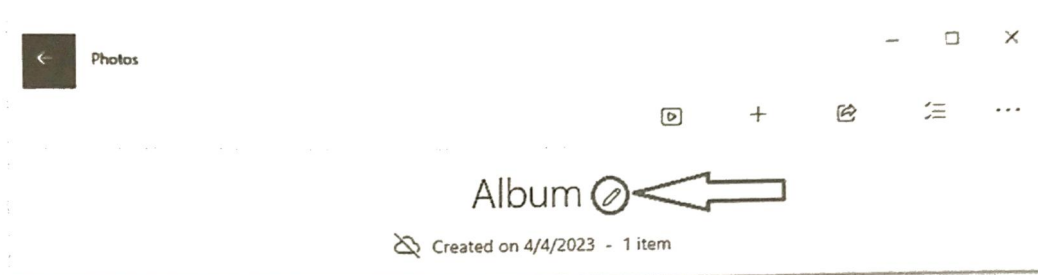
C) Recognize the image file format below. Name what they stand for**(5 marks)****EPS****PNG****JPG****PDF****GIF**

Image format	Stands for
1. EPS	
2. PNG	
3. JPG	
4. PDF	
5. GIF	

D) State the three steps of how to open Microsoft photo application. (3 marks)

- a. _____
- b. _____
- c. _____

E) Using the window below, what is the function of marked pen button? (1 mark)



Answer: _____

F) Fill in the following table the suitable sentences for **raster** and **vector** from the box below. (4 marks)

-File format (JPEG, GIF, PNG) - Small file size - File format (SVG, PDF, ESP) - Large file size	
Raster	Vector

QUESTION 4: CAREER PROSPECTS IN ICT INDUSTRIES (18 MARKS)**A) Fill in the blanks with their definitions in the space provided below. (5 marks)****(Data analysts, Hardware Engineer, IT Manager, Software developer, Software Engineering).**

1. _____ they regularly work closely with programmers and administrators.
2. _____ is in charge of setting up and managing computer network.
3. _____ is in charge of an organization's electronic networks.
4. _____ supervise the manufacturing, installation, and test computers
5. _____ specialize in gathering, analyzing and interpreting data.

B) List five components of Job Application Form format. (5 marks)

C) Name four ICT professional careers. (4 marks)

D) Discuss at least four components that Curriculum Vita (CV) format must contain.**(4 marks)**

End

