

FEDERAL REPUBLIC OF SOMALIA

GRADE 12 EXAMS, 2024

TECHNOLOGY (ICT)



OFFICE OF EXAMINATIONS AND CERTIFICATION



Ministry of Education, Culture & Higher Education
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Form Four National Examinations.

JUUNIYO 2024

SUBJECT: Technology (ICT)

TIME: 2 HOURS

INSTRUCTIONS: Answer all questions in the ANSWER BOOKLET

PART ONE: DIRECT QUESTIONS (20 Marks)

Please answer ONLY EIGHT QUESTIONS while question number 6&10 is COMPULSORY

1. List the Microsoft access database objects and discuss in detail two of them?
2. What is the Waterfall Model?
3. Explain in Brief the table basics
4. Identify the main advantages and disadvantages of database?
5. Name 2 examPles of poor primary key
6. Write a program that adds two number using python code? (3 Marks)
7. How to add new record in a form?
8. What is reports?
9. Explain the difference between interpreter and compiler?
10. From the figure below, please mention the appropriate name on each of the following programming languages: (3 Marks)

1



2



3



PART TWO: MULTIPLE CHOICE QUESTIONS (60 Marks)

1. _____ is a mechanism in which a team can manage a project by breaking it up into many stages and requiring continuous collaboration with stakeholders and continual development and iteration at each stage.
a) Waterfall model b) Agile c) RAD d) XP
2. Which of the following is the advantage of waterfall model?
a) Easy and simple to understand and use
b) Even late change in requirement are welcomed
c) Frequent adaptation to changing circumstances
d) Face to face conversation is the best method of commination



3. This method involves the old system Being completely dropped and new system being co implemented at the same time is called
- a) Parallel deployment b) Direct deployment c) Pilot deployment d) Phased deployment
4. _____ is a title give to person who studies the problems and needs of an organization looking for improvement opportunities for improving quality of service or product, reducing cost and increasing the income or profit.
- a) System analyst b) Programmer c) Developer d) Tester
5. _____ It is device or a program that allows users to communicate with computer.
- a) Environment b) Input c) Output d) Interface
6. Collection of Logically related data which is usually store in electronic form is known us.
- a) Data warehouse b) Table c) Database d) DBMS
7. In the Microsoft Access, which of the following steps use to add new record in a table:
- a) In the records group on the Create tab, click the new command
- b) In the records group on the database tool, click the new command
- c) In the records group on the home tab, click the new command
- d) Click a tab, then click the pin icon in the lower right corner
8. _____ are a way of searching for data in a table or compiling data from one or more tables is known as:
- a) Code b) Queries c) Commands d) Forms
9. In Microsoft Access, DBMS stands for:
- a) Data Management System b) Database management Service
- c) Database Management System d) Database Management Security
10. Byte allows whole numbers from
- a) 1 to 245 b) 0 to 355 c) 0 to 255 d) 1 to 455
11. In the Microsoft access 2016, to modify the page size, margin width, and page orientation go to:
- a) Page layout b) Review c) View d) Insert
12. On the home tab of ribbon, click the view command. Select design view from the drop-down menu that appears.
- a) To modify a query b) To modify a report
- c) To modify a print preview d) To modify a form
13. Microsoft access has ability to quickly retrieve and analyse data by running a _____
- a) Form b) Database c) Query d) Report



14. In Microsoft access form, there are two ways to find and view an existing record using a form, Both use the navigation bar at the bottom of the screen, so one of these ways is:
- a) Click the navigation bottom in the homepage
 - b) Find the file in page layout and look it.
 - c) Find the file in insert page then search in the navigation search box
 - d) Type a word you know is contained in that record in the navigation search box.
15. JavaScript, created in the 1990s, it's a popular script in developing web pages. The name JavaScript is not related to:
- a) Python
 - b) Visual basic
 - c) Java
 - d) C#
16. There three types of errors which can occur in a program, these are called:
- a) Syntax, runtime and semantic errors
 - b) Syntax, runtime and program errors
 - c) Syntax, report and semantic errors
 - d) execute, runtime and semantic errors
17. Which of the following is Low level language?
- a) Java
 - b) C sharp
 - c) Visual basic
 - d) Assembly
18. The process of creating software and power to enable a computer to do almost everything is:
- a) Software
 - b) Hardware
 - c) Programming
 - d) Report
19. A code for writing down to tell the computer the instructions to do is:
- a) Programming
 - b) Programming language
 - c) Software
 - d) Hardware
20. The process of writing an algorithm in a programming language is:
- a) Coding
 - b) Reporting
 - c) Formatting
 - d) Debugging
21. To write a comment in python simply put the
- a) Hash mark #
 - b) Dollar sign mark \$
 - c) Slash mark /
 - d) Question mark?
22. The input function always returns the user input as
- a) Integer
 - b) Float
 - c) String
 - d) Float
23. The if statement is used to create a decision structure, which allows a program to have more than
- a) One path of execution
 - b) Two path of execution
 - c) Three path of execution
 - d) Four path of execution
24. In a programming, repeated execution of set statement is called
- a) Conditional statement
 - b) Loop
 - c) Function
 - d) List
25. If a loop does not have a way of stopping, it is called
- a) Counting controlled loop
 - b) Conditional controlled loop
 - c) Infinite loop
 - d) For loop
26. Python is general-purpose language created in the early _____
- a) 1990
 - b) 1980
 - c) 1970
 - d) 1960



27. _____ is a set of procedures and guidelines that effect how people lead their lives.
- a) Ethics b) Un ethics c) Low d) Rule
28. _____ is someone illegally accessing computer or network
- a) Cracker b) Hacker c) Script kiddies d) Corporate spy
29. _____ is a program that adversely effects or damages a computer By altering or manipulating the way the computer or system functions without the user's knowledge or permission
- a) Worm b) Adware c) Spyware d) Virus
30. _____ is a set of instructions that allow users to bypass security checks when accessing a computer or network.
- a) Back doors b) DOS attack c) Botnet d) Spoofing

PART THREE: MATCH THE FOLLOWING QUESTIONS (20 Marks)

Please put a character in the answer column instead of drawing arrows or circling the correct answer!

1	_____ is a name that represents a value in the computer's memory.	A. Variable
2	If a <u>Loop</u> does not have a way of stopping is called _____	B. Infinite Loop
3	One method that protect computers and networks from attacks is _____	C. Table
4	One of the most common software thefts is _____	D. Microsoft
5	Examples of Information systems include:	E. Program
6	Database is essentially a collection of data stored in	F. Backup regularly
7	C# was created by	G. Payroll system
8	IDE is an application used to create	H. Network
9	Firewall Is a hardware or software which protects the resources of	I. Physical stealing software
10	Translates the code into machine code, instruction by instruction	J. Hyperlink
11	It contain links to other files, including web pages is called	