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TEST CODE **01229010**

FORM TP 2016083 MAY/JUNE 2016

CARIBBEAN EXAMINATIONS COUNCIL

CARIBBEAN SECONDARY EDUCATION CERTIFICATE[S]
EXAMINATION

INFORMATION TECHNOLOGY

Paper 01 — General Proaciency

1 hour 30 minutes

3 **2016** p)

READ THE FOLLOWING INSTRUCTIONS CAREFULLY.

1. This test consists of 60 items. You will have 1 hour and 30 minutes to answer them.
2. In addition to this test booklet, you should have an answer sheet.
3. Each item in this test has four suggested answers lettered (A), (B), (C), (D). Read each item you are about to answer and decide which choice is best.
4. On your answer sheet, find the number which corresponds to your item and shade the space having the same letter as the answer you have chosen. Look at the sample item below.

   Sve Item

   Which of the following pairs represents general-purpose software tools?

   (A) Spreadsheet and database software
   (B) Word processor and accounting software
   (C) Student record system d database software
   (D) Insurance processing and spreadsheet software

   Sample Answer

   ● (B) (C) (D)

   The best answer to this item is "Spreadsheet and database software", so (A) has been shaded.

5. If you want to change your answer, erase it completely before you fill in your new choice.
6. When you are told to begin, turn the page and work as quickly and as carefully as you can. If you cannot answer an item, go on to the next one. You may return to that item later.

DO NOT TURN THIS PAGE **UNTIL** YOU ARE **TOLD TO** DO SO.

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1. Keyboards, speakers and CD drives are

(A) peripheral devices
(B) storage devices
(C) output devices
(D) input devices

2. Scanning an item at a computerized checkout station in a supermarket is an example of

(A) input
(B) output
(C) storing
(D) processing

3. The Arithmetic/Logic Unit (ALU) is part of the

(A) Control Unit (CU)
(B) Read Only Memory (ROM)
(C) Central Processing Unlt (CPU)
(D) Random Access Memory (RAM)

4. Thebinaryequivalentofthedecimalnumber 7 is

(A) 100_2
(B) 101_2
(C) 110_2
(D) 111,

5. Which of the following is MOST sui@ble for printing building ply?

(A) Plotter
(B) Laser printer
(C) Dot-matrix printer
(D) Thermal transfer printer

6. What type of management occurs when the operating system undertakes communication between a printer and the system unit? 11

(A) File
(B) Process
(C) Memory
(D) Input/output

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7. Which of the following has the largest data storage capacity?

(A) Optical drive
(B) USB flash drive
(C) Flash memory card
(D) Hard drive

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8. Which of the following primary storage devices can be programmed only once?

(A) RAM
(B) PROM
(C) EPROM
(D) EEPROM 14

9. The time taken by the read/write head to locate and transfer data is termed

(A) seek time
(B) access time
(C) transfer time
(D) rotational time

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10. To use a program stored on a flash drive, it must be transferred into

(A) RAM
(B) ROM
(C) PALU
(D) PROM

11. Adiskette isdividedintoanumberofconcentric circles called

(A) tracks
(B) sectors
(C) clusters
(D) cylinders

12. Which ofthe following user interfaces/devices is BEST suited for a visually impaired person†

(A) Touchscreen
(B) Menu driven
(C) Braille keyboard
(D) Command driven

13. Laser beam technology is used by a

(A) floppy disk
(B) optical disk
(C) magnetic disk
(D) magnetic tape

14. Which of the following prefixes which relate to bytes are arranged from the smallest to the largest?

(A) **Mega, giga,** tera, kilo
(B) Mega, tera, giga, kilo
(C) Kilo, mega, giga, tera
(D) Kilo, giga, mega, tera

15. Which of the following provides Omission *of dntn* in BOTH directions at the same time?

(A) Half Duplex
(B) Full Duplex
(C) NullDuplex
(D) Simplex

16. In the URL http://www.shoes.com, 'shoes.com' represents the

(A) internet company
(B) company name
(C) domain name
(D) extension

17. Programs that duplicate the knowledge and diagnostic skills displayed by humans performing specialized tasks are referred to as

(A) expert systems
(B) vimial systems
(C) engineering systems
(D) knowledge systems

18. TheuseofInformationandCommunications Technology (ICT) to conduct meetings at different locations is called

(A) teleconferencing
(B) telecommuting
(C) telemarketing
(D) telephony

19. Transferring data from a remote computer to your computer is referred to as

(A) uploading
(B) browsing
(C) downloading
(D) data mining

20. Scrambling of messages before sending is called

(A) coding
(B) encryption
(C) espionage
(D) eavesdropping

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21. Telecommuting can be BEST described as

(A) using the computer while commuting
(B) using the telephone while commuting
(C) working from home by connecting home and office
(D) working from the office after establishing a connection at home

22. A webmaster is iinportant to the company because he/she

(A) backs up files and stores the disks at another location
(B) monitors the shutting down of competitors' websites
(C) assigns web addresses to all users in a company
(D) is responsible for the company's website

23. Any unauthorized person is allowed to view another person's name by merely providing a phone number to a service representative at a telephone company. This is an example of

(A) propaganda
(B) eavesdropping
(C) computer fraud
(D) violation of privacy

24. Which of the following checks is NOT a validation technique?

(A) Range
(B) Double entry
(C) Inconsistency
(D) Reasonableness

25. Which of the following is detected by the use of a pressure sensor?

(A) Motion
(B) Light
(C) Weight
(D) Warmth

26. The illegal copying, distribution or sale of proprietary software is known as

(A) computer fraud
(B) computerthefl
(C) software fraud
(D) software piracy

27. In an algorithm, i e e m_pr i c e is a variable used to store the price of a grocery item. The MOST appropriate data type used for i t em_pri c e is

(A) real
(B) integer
(C) boolean
(D) character

28. Which ofthe following types ofdocuments is used for the initial recording of data relating to business transactions?

(A) Main
(B) Source
(C) Primary
(D) Turnaround

29. Which of the following is a sequential access mediuza?

(A) Floppy disk
(B) Compact disk
(C) Magnetic tape
(D) Winchester disk

30. Which ofthe following is NOT an example of commercial data processing?

(A) Budgeting
(B) Invoice processing
(C) Payroll processing
(D) Forecasting hurricanes

31. In computing, 'word wrap' refers to

(A) placing text around a graphic
(B) placing text at the back ofa graphic
(C) the automatic carrying forward of text once the current line is filled
(D) the user having to manually place the cursor on a new line when the previous one is filled

32. Which word processing feature MUST John use if he wants to include his company's logo in the bottom margin of every page of a document?

(A) Header
(B) Footer
(C) Endnote
(D) Footnote

33. While typing a document it may be necessary to change the height of the characters. Which word processing feature should be used?

(A) Letter size
(B) Paper she
(C) Page size
(D) Font size

34. When text is aligned with both the left and right margins at the same time, this is called

(A) left and right alignment
(B) right and left alignment
(C) justified alignment
(D) centre alignment

35. While entering text in a word processing document, Michelle noticed that each new letter entered was replacing the previous one. The mode activated in this ease is

(A) type over
(B) word wrap
(C) delete
(D) insert

36. A thumbnail image on a webpage is used to

I. represent a smaller version of a larger image
II. provide a link to the other contents
III. emphasize text and images

(A) I only
(B) III only
(C) I and II only
(D) II and III only

37. You have typed the characters '3'". Which ofthe following formatting features should be used to create '^'?

(A) Superscript
(B) Highlight
(C) Subscript
(D) Italics

38. Which of the following types of software should be used for applications that involve repetitive numerical calculations?

(A) Database
(B) Spreadsheet
(C) Word processing
(D) Operating system

39. In what form is data stored in a database?

(A) Table
(B) Chart
(C) Numeric
(D) String

40. In creating a query, a student entered the following criteria for the date field.

> = 05/11/2011 and < = 05/14/2011

The output will show days

(A) after 14th May 2011 only
(B) between 11th and 14th May 2011
(C) before 11th Mayandafter 14th May 2011
(D) between the 14th May and 5th November 2011

41. Which of the following MUST be placed in front ofthe column letter and row number to create an absolute reference?

(A) *
(B) +
(C) −

42• You need to enter the text "WEEKLY REPORT" to appear in the middle of the space used by the five columns below. Which of the following spreadsheet commands will enable this to be done?

	A	B	C	D
1		**WEEKLY REPORT**		
2		January	1,245	
3		February	1,450	
4		March	2,550	

(A) Centre the text
(B) Indent the cells
(C) Merge and centre
(D) Merge the columns

43. Which of the following can be used in a spreadsheettocopythesamenumberacross multiple rows in a single column?

(A) Fill handle
(B) Cursor
(C) Label
(D) Cell

44. In a spreadsheet, the column titles will always be visible when you scroll the spreadsheet if you first

(A) freeze the top row
(B) lock the last column
(C) lock the spreadsheet
(D) freeze the first column

45. Which of the following is the correct sequence of steps to delete a field in a database table?

(A) Choose the delete row option.
Select row to be deleted and right click.
Open table in design view.
Choose yes to confirm deletion.

(B) Open table in design view.
Select row to be deleted and right click.
Choose the delete row option.
Choose yes to confirm deletion.

(C) Select row to be deleted and right click.
Open table in design view.
Choose the delete row option.
Choose yes to confirm deletion.

(D) Select row to be deleted and right click.
Choose the delete row option.
Open table in design view.
Choose yes to confirm deletion.

46. Consider the following algorithm.

```
a = 7
b = 9
a = b — a
b = a + b
Write a, b
```

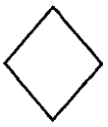
The output of this algorithm is

(A) 2, 9
(B) 2, 11
(C) 7, 9
(D) 7, 11

47. Which ofthe following flowchart symbols represents a process?

(A) 

(B) 

(C) 

(D) 

48. Program debugging should be performed

(A) during the design phase
(B) during the testing phase
(C) before compiling the program
(D) before identifying any test data

49. In representing algorithms, which of the following statements would be placed in the flowchart box shown below?



(A) A>25
(B) Read A
(C) Output C
(D) Count count + 1

50. Data that cannot be changed during the execution of the program are called

(A) variables
(B) constants
(C) characters
(D) strings

51. Which of the following tasks does the algorithm below perform?

```
Read (A , B)
If ABB Then
Print(A);
```

(A) Reads two numbers and prints the first number
(B) Reads two numbers and prints the smaller number
(C) Reads two numbers and prints the first number if it is larger than the second number
(D) Reads two numbers and prints the first number if it is smaller than the second number

52. Thetypeofprogramminglanguage in which instructions are written using abbreviated forms of words is known as

(A) assembly language
(B) machine language
(C) high level language
(D) machine code

53. Which of the following is a valid Pascal data type?

(A) Numeric
(B) Real
(C) Number
(D) Letter

54. What type of errors are caused by not following the rules of a particular computer programming language when creating a software?

(A) Grammar
(B) Run time
(C) Syntax
(D) Logic

55. The terms "END" and "STOP" used in algorithms are called

(A) loops
(B) outputs
(C) processes
(D) terminators

56. The LAST step in creating a program is to

(A) evaluate the solutions
(B) test the solution
(C) develop the algorithm
(D) specify the design

Item 57 refers to the following code.

```
sum    0
CO\I0t'
While count < 10 do
        count = count + 1
        Read num
        sum = sum + num
endwhile
Printsum
```

57. If the While loop is to be executed 10 times, what should be the initial value stored in count?

(A) 0
(B) 1
(C) 2
(D) 1

Item 58 refers to the following algorithm.

```
I users for length, width
_iJ_ length,width, area     length * width
III "Area of rectangle is", area
```

58. Which ofthe following options can be used to replace I, II and III in the algorithm?

(A) Read, write, prompt
(B) Write, read, prompt
(C) Prompt, read, write
(D) Read, prompt, write

59. Which ofthe following is the Pascal code used to declare an array WORD with 20 letters?

(A) WORD: ARRAY[1..20] of char;
(B) VAR LIST: ARRAY[20] of char;
(C) VAR WORD: ARRAY[1..20] of char;
(D) VAR WORD: ARRAY[1 to 20] of char;

60. What is the MOST appropriate control structure to be used for calculating the total of ten numbers?

(A) If-then-else
(B) Repeat-until
(C) While-do
(D) For-do

END OF TEST

IF YOU FINISH BEFORE TIME IS CALLED, CHECK YOUR WORK ON THIS TEST.