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CANDIDATE – PLEASE NOTE!

PRINT your name on the line below and return this booklet with the answer sheet. Failure to do so may result in disqualification.

TEST CODE **01229010**

MAY/JUNE 2014

FORM TP 2014083

CARIBBEAN EXAMINATIONS COUNCIL

CARIBBEAN SECONDARY EDUCATION CERTIFICATE® EXAMINATION

INFORMATION TECHNOLOGY

Paper 01 – General Proficiency

1 hour 30 minutes

03 JUNE 2014 (p.m.)

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 how it is done in the sample item below.

Sample 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 and 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 answer space (A) has been shaded.

5. If you want to change your answer, be sure to 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, omit it and go on to the next one. Your score will be the total number of correct answers.

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

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1. Which of the following devices is used to input data into the computer?

(A) Monitor
(B) Mouse
(C) External hard drive
(D) USB flash drive

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. A diskette is divided into a number of concentric circles called

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

4. The primary storage device that holds the data currently being processed by the computer is known as the

(A) Read Only Memory (ROM)
(B) Random Access Memory (RAM)
(C) Programmable ROM (PROM)
(D) Erasable and Programmable ROM (EPROM)

5. The hardware device that allows the user to see the results after processing is the

(A) monitor
(B) camera
(C) scanner
(D) webcam

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

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

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

8. In which of the following interface types is the user required to remember specific instructions and syntax?

(A) Menu-driven interface
(B) Computer screen interface
(C) Command-driven interface
(D) Graphical user interface

9. In modern personal computers, the CPU speed is measured in

(A) nanoseconds
(B) milliseconds
(C) MHz
(D) GHz

10. Which of the following is NEITHER a validation NOR a verification check?

(A) Storage media check
(B) Inconsistency check
(C) Data-type check
(D) Range check

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11. An example of operating system software is

(A) Microsoft Windows
(B) Microsoft Office
(C) Microsoft Word
(D) Microsoft Excel

12. Advantages of electronic information processing include

(A) retraining of staff
(B) less human intervention
(C) increased amount of equipment
(D) less savings on hardcopies

13. Which of the following represents a hexadecimal?

(A) $5C_{16}$
(B) 10_{2}
(C) 15_{10}
(D) 23_{8}

14. The twos complement of a binary number is formed by

(A) changing all zeros to twos
(B) changing all ones to twos
(C) finding the ones complement twice
(D) adding one to the ones complement

15. Which of the following provides transmission of data in BOTH directions at the same time?

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

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

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

17. Which of the following is NOT required to successfully implement teleconferencing?

(A) Sensor
(B) Modem
(C) Speaker
(D) Microphone

18. Which type of processing system will use sequential file organization?

(A) Real time processing
(B) Batch processing
(C) Transaction processing
(D) Online processing

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 at the sending end and unscrambling them at the receiving end is called

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

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21. The introduction of communication by means of computers has reduced the employment of which of the following groups?

(A) Messengers and postal workers
(B) Analysts and programmers
(C) Software testers and trainers
(D) Web masters and developers

22. A webmaster is important 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 website

23. Working from home and linking to the office computer system to submit work is described as

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

24. Which of the following actions must be taken to get to record Number 50 of 100 records on a floppy disk?

(A) Convert to tape.
(B) Fast forward to record 100, and then read backward.
(C) First read records 1 through 49.
(D) Go directly to record 50.

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) computer theft
(C) software fraud
(D) software piracy

27. Wireless transmission media do NOT include

(A) coaxial
(B) infrared
(C) satellite
(D) line-of-sight

28. Which of the following represents the function of a modem?

(A) Digital and upload
(B) Analog and digital
(C) Analog and download
(D) Download and upload

29. Which of the following computer crimes occurs when someone gathers confidential information about another individual and then impersonates that individual in order to commit fraud?

(A) Identity theft
(B) Software piracy
(C) Computer fraud
(D) Electronic eavesdropping

30. Which of the following statements is TRUE about accessing files sequentially?

(A) Occurs in any order
(B) Starting with the first record
(C) Starting with the largest data field
(D) Starting with the smallest data field

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31. Which of the following is NOT a method of making text stand out in a document?

(A) Bold
(B) Subscript
(C) Underline
(D) Enlarging font size

32. While typing in a document using a word processor, Susan made the following errors.

'I heard that Sanday was the last day for the shew.'

The feature of the software that allows her to locate and correct such errors is the

(A) spell-check
(B) grammar check
(C) consistency check
(D) reasonableness check

33. While typing a document it may be necessary to change the height of the characters. Which feature in Microsoft Word would be used?

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

34. The intersection of a row and a column in a spreadsheet is called a

(A) cell
(B) label
(C) range
(D) value

35. In PowerPoint the view that permits the insertion of slides is the

(A) normal
(B) note page
(C) slide show
(D) presenter

36. Which of the following is NOT a valid data type in Microsoft Access?

(A) Text
(B) Auto-number
(C) Date/time
(D) Character

37. Which of the following is the default justification of numbers in spreadsheets?

(A) Left
(B) Full
(C) Centred
(D) Right

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

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

39. Spreadsheet formulae use

(A) values, labels or cell address
(B) values, mathematical operators or cell addresses
(C) labels or cell addresses
(D) values or cell addresses

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 May and after 14th May 2011
(D) between the 14th May and 5th November 2011

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41. Which of the following characteristics must two database tables have in order for them to be linked?

(A) At least one common attribute name.
(B) Composite keys.
(C) At least two tuples in the table.
(D) The same data in all tuples.

42. You created a spreadsheet with 7 columns and wish to enter the text "WEEKLY REPORT" to appear at the middle of the space used by the 7 columns. Which of the following spreadsheet features will enable this to be done?

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

43. Which of the following is normally used for website-website connection?

(A) Modem
(B) Monitor
(C) Hyperlink
(D) Hypertext

44. The object that is used to produce a list of records that meets a particular criterion is a

(A) form
(B) table
(C) module
(D) query

45. Which of the following is the BEST feature to use to display the same text at the bottom of each page of a multipage document?

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

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

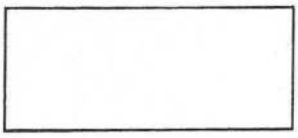
47. In the Pascal programming language, which of the following is NOT an elementary data type?

(A) Array
(B) Character
(C) Real
(D) Integer

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

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Item 50 refers to the following information.

The steps involved in problem-solving include

I. developing an algorithm
II. defining the problem
III. testing the solution

50. What is the correct order of the steps listed above?

(A) I, II, III
(B) II,I, III
(C) II, III,I
(D) III, I, II

Items 51–52 refer to the following information

ALGORITHM

Step 1	Start
Step 2	Get three numbers
Step 3	Add the three numbers
Step 4	Store the results in sum
Step 5	Divide the results by 3
Step 6	Store the result in Avg
Step 7	Display Sum, Avg
Step 8	Stop

51. Step 2 in the above algorithm is an example of

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

52. Which of the steps in the above algorithm are examples of processing?

(A) 2 and 3
(B) 3 and 4
(C) 3 and 5
(D) 4 and 5

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

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

54. The Pascal code **var** *x*, y would generate an error. The term used to describe this type of error is

(A) run time error
(B) execution error
(C) logical error
(D) syntax error

Item 55 refers to the following pseudocode.

```
Read A, B
If A < 2
   C ¬ 2
Else
   C ¬ 6
End if
D ¬ C * B + 2
Write D
```

55. What is printed by the pseudocode if the input values are 5 and 2 respectively?

(A) 6
(B) 12
(C) 14
(D) 24

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

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57. Which of the following tasks does the algorithm listed below perform?

```
Read (A , B)
If A<B 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.

58. Which of the following symbols is used to perform assignments in the programming language Pascal?

(A) =
(B) ←
(C) ==
(D) :=

59. Which of the 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. Which of the following activities is NOT involved in publishing a website?

(A) Uploading files
(B) Using the PASCAL programming language
(C) Subscribing to a web hosting plan
(D) Registering a domain name

END OF TEST

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