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**

**FORM TP 2015083**

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**CARIBBEAN EXAMINATIONS COUNCIL**

# CARIBBEAN SECONDARY EDUCATION CERTIFICATE® EXAMINATION

## INFORMATION TECHNOLOGY

### Paper 01 – General Proficiency

*1 hour 30 minutes*

**02 JUNE 2015 (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

   ● Ⓑ Ⓒ Ⓓ

   The best answer to this item is "Spreadsheet and database software", so (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. You may return to that item later.

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

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1. Which of the following are considered computer hardware?

(A) Data
(B) Programs
(C) Operating systems
(D) Output devices

2. Resolution determines the clarity of the image displayed on a monitor. The term 'resolution' refers to the number of pixels

(A) present horizontally on the screen
(B) present vertically on the screen
(C) present in a unit area of the screen
(D) that makes up the colour

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

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

4. The storage capacity of a floppy disk is

(A) 1.44 MB
(B) 1.44 GB
(C) 1440 KB
(D) 1440 MB

5. Which of the following devices is used to perform input into the computer?

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

6. Which of the following is a type of user interface?

(A) IDE
(B) MIDI
(C) ASCII
(D) GUI

7. Which of the following is used by the CPU to temporarily store data?

(A) Buffer
(B) Track
(C) Sector
(D) Cylinder

8. Encryption is used to

(A) disguise data and programs
(B) commit computer crime
(C) discard old equipment
(D) physically prevent users from accessing a computer

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

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

10. Google Chrome is an example of

(A) the Internet Explorer
(B) a web browser
(C) a search engine
(D) the World Wide Web

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11. The four-bit binary representation of the decimal number 8 is

(A) 0001
(B) 0010
(C) 0100
(D) 1000

12. Which of the following is considered a feature of a biometric system?

(A) Diagnoses medical symptoms.
(B) Matches fingerprints.
(C) Detects irregular heartbeats.
(D) Helps to lubricate skeletal joints.

13. Which of the following printers is MOST suitable for high volume printing?

(A) Dot matrix
(B) Thermal
(C) Inkjet
(D) Laser

14. The MAIN function of a firewall is that it

(A) is used by hackers to prevent detection
(B) protects computer files
(C) prevents unauthorized access to a computer on a network
(D) protects a stand-alone computer from viruses

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' stands for the

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

17. Which of the following devices produces a soft copy?

(A) Microfilm
(B) Plotter
(C) Printer
(D) Visual Display Unit (VDU)

18. A document used for the initial recording of data relating to business transactions is called a

(A) turnaround document
(B) source document
(C) primary document
(D) main document

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 acronym 'HTTP' stands for

(A) Hyper Text Transfer Protocol
(B) Hyper Text Transmission Protocol
(C) Higher Text Transmission Protocol
(D) Higher Text Transfer Protocol

22. Which of the following statements is NOT true of secondary storage media?

(A) Pictures and text can be stored.
(B) Storage capacity is typically around 1.44 MB.
(C) Information can be accessed more quickly than magnetic disks.
(D) Large amounts of data can be stored.

23. Which of the following protocols allows the user to talk internationally?

(A) FTP
(B) VoIP
(C) HTTP
(D) IP

24. What is the corresponding decimal value of 111 (base 2)?

(A) 7
(B) 8
(C) 9
(D) 10

25. What is the result of the following operation?

10110 base 2 + 00101 base 2

(A) 10111 base 2
(B) 11001 base 2
(C) 11011 base 2
(D) 10101 base 2

26. Which of the following is BEST suited to batch processing?

(A) Salary preparation
(B) Online gaming
(C) Flight simulation
(D) Theatre booking

27. Which of the following is NOT an operating system?

(A) MS Office
(B) Windows
(C) Mac OS
(D) Linux

28. The part of the central processing unit where simple calculations can take place is called the

(A) CU
(B) ALU
(C) SU
(D) VDU

29. Data can be transmitted between devices and computers using a wireless radio technology known as

(A) bluetooth
(B) hotspot
(C) microwave
(D) fibre optic

30. Which of the following limits network access between two or more networks?

(A) A firewall
(B) Biometrics
(C) An encryption
(D) An anti-virus program

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31. Selecting or highlighting a paragraph creates a

(A) file
(B) merge
(C) block
(D) document

32. To complete her word processing assignment, Susie must align the text to both the left and right margins. Which type of alignment must Susie select to achieve this?

(A) Right
(B) Left
(C) Centre
(D) Justified

33. Which of the following features allows the user to insert individual names in a primary document?

(A) Footers
(B) Headers
(C) Mail merge
(D) Search and replace

34. In Microsoft PowerPoint, a single page shown on a screen to display information is called a

(A) slide
(B) table
(C) field
(D) presentation

35. A2 is formatted as $A^2$ using

(A) strikethrough
(B) subscript
(C) superscript
(D) small caps

36. Which type of chart is NOT suitable for representing data over two years as shown in the table below?

| Country | 2009 | 2010 |
|---|---|---|
| A | 300 | 600 |
| B | 500 | 800 |
| C | 500 | 600 |

(A) Column
(B) Line
(C) Bar
(D) Pie

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

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

38. Information produced from queries and tables in a specific format that can be printed from a database is called

(A) a file
(B) a report
(C) a binary
(D) an object

39. Slides can be arranged using

(A) slide view
(B) slide sorter
(C) slide master
(D) new slide

40. The  icon in a presentation is used for

(A) slide show view
(B) notes view
(C) outline view
(D) normal view

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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. Which of the following effects is a special animation effect, where the information fades after it has been presented?

(A) Animation
(B) Dimming
(C) Entrance
(D) Emphasis

43. Which of the following is normally used for website-to-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 data types CANNOT be entered into a database table?

(A) Number
(B) Text
(C) Yes/no
(D) Array

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. When breaking down a simple problem into its logical steps, what statement/instruction would the adding of two numbers be?

(A) A process
(B) An output
(C) An input
(D) A storage

48. What is the name given to an identifier that always holds the same value?

(A) Constant
(B) Variable
(C) Location
(D) Storage

49. You are given the problem of finding the sum of THREE numbers, and you use an IPO chart to decompose the problem.

What is the correct order of the statements to be placed into the input, processing and output columns?

(A) Add the three numbers together/ number 1, number 2, number 3/ Total
(B) Total/number 1, number 2, number 3/add the three numbers together
(C) Number 1, number 2, number 3/ Total/add the three numbers together
(D) Number 1, number 2, number 3/ add the three numbers together /Total

50. The integer variables a, b and c, are given the values 6, 10 and 2 respectively. What is the result of the expression **a MULT (b DIV c)**?

(A) 0
(B) 20
(C) 30
(D) 120

51. The original code written by the programmer is termed

(A) object code
(B) source code
(C) machine code
(D) symbolic code

52. Errors that result from NOT following the rules of the programming language are called

(A) execution errors
(B) logic errors
(C) run-time errors
(D) syntax errors

53. The LAST step in solving a problem is to

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

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

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

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. Which of the following statements includes loops?

(A) Sequencing
(B) Repetition
(C) Selection
(D) Ordering

57. Which of the following is NOT a third-generation language?

(A) Assembly
(B) COBOL
(C) C
(D) Pascal

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

(A) =
(B) □
(C) ==
(D) :=

59. A compiler is software that converts the

(A) program to output
(B) source code to assembly code
(C) source code to machine code
(D) program to object code one instruction at a time

60. A computer programmer is coding an algorithm which calculates the class average for a given exam. He creates a variable called class_avg. Which data type should he specify when declaring this variable?

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

**END OF TEST**

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