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.

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FORM TP 2013086 TEST CODE **01229010**

MAY/JUNE 2013

CARIBBEAN EXAMINATIONS COUNCIL

CARIBBEAN SECONDARY EDUCATION CERTIFICATE® EXAMINATION

INFORMATION TECHNOLOGY

Paper 01 – General Proficiency

1 hour 30 minutes

04 JUNE 2013 (p.m.)

3086

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.

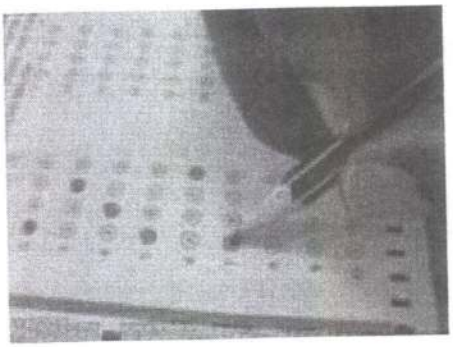
DO NOT TURN THIS PAGE UNTIL YOU ARE TOLD TO DO SO.

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1. Which of the following sequences of instructions does the Control Unit perform?

(A) Decodes, executes and fetches
(B) Fetches, decodes and executes
(C) Executes, decodes and fetches
(D) Fetches, executes and decodes

Item 2 refers to the following diagram which shows a form being completed.



2. The data from the the form above is captured by

(A) MICR
(B) OCR
(C) OMR
(D) USB

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

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

6. The bar code reader is a device used to

(A) input data
(B) output data
(C) store data
(D) process data

7. Which of the following devices is NOT used in point of sale terminals?

(A) Printer
(B) Plotter
(C) Bar code reader
(D) Electronic cash register

8. The one's complement of 01010011 is

(A) 11010011
(B) 01011111
(C) 10101100
(D) 11111111

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

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

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

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

11. A wedge-shaped slice on a disk is referred to as a

(A) buffer
(B) cylinder
(C) sector
(D) track

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12. Which of the following units performs mathematical calculations?

(A) Control
(B) Fetch
(C) Arithmetic and logic
(D) Central processing

13. 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.

14. Which of the following 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 quicker than from magnetic disks.
(D) Can store large amounts of data.

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. A person who designs, creates and maintains websites is called a

(A) web master
(B) web manager
(C) web browser
(D) web tester

18. The introduction of communication by means of computers has REDUCED the employment opportunities of which of the following groups of workers?

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

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

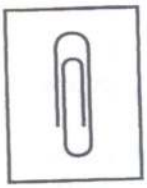
21. The acronym 'HTTP' stands for

(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 software is used to create 2D and 3D drawings?

(A) CAD
(B) CAE
(C) CAM
(D) CADD

Item 23 refers to the icon below.



23. In an e-mail program the icon above is used to

(A) send a file
(B) forward a file
(C) create a file
(D) attach a file

24. Google is an example of

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

25. Which of the following is an advantage of using credit or debit cards?

(A) Only the owner can use the card.
(B) The owner can spend more money.
(C) The owner may use the card to store additional data.
(D) The owner can carry less cash.

26. Which of the following is detected by using a pressure sensor?

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

27. Which of the following is NOT included in wireless transmission media?

(A) Coaxial
(B) Line-of-sight
(C) Satellite
(D) Infrared

28. 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

29. Advantages of information processing include

(A) retraining of staff
(B) less human intervention
(C) increasing the amount of equipment needed
(D) reduction of face-to-face interaction

30. Which type of processing system will use sequential file organisation?

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

31. The first-generation programming language is called

(A) Assembly
(B) BASIC
(C) Machine
(D) Non-procedural

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. A site map on a web page shows the

(A) code of the web site
(B) contents of each web page
(C) hyperlinks in the web page
(D) list of pages on a web site

34. Which of the following is the correct process for inserting a repeated sentence in different locations of a document?

(A) Copy, cut and paste
(B) Cut and paste
(C) Copy and paste
(D) Cut and copy

35. Slides can be arranged using

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

36. Which of the following may NOT be included in PowerPoint presentations?

(A) Photos
(B) Text
(C) Chat
(D) Sound

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 is normally used for website-to-website connection?

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

39. Spreadsheet formulae use

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

40. Which of the following can be used in a spreadsheet to copy the same number down multiple rows in a single column?

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

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
(B) Merging
(C) Merge and Centre
(D) Indenting

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43. Which spreadsheet function finds and displays the HIGHEST value in a set of values?

(A) MAX
(B) MIN
(C) RANK
(D) COUNT

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. The term used to describe text in a spreadsheet that is aligned towards left by default is

(A) value formulae
(B) headings
(C) labels
(D) values

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 of the following is NOT a stage or step in problem solving?

(A) Sell the program.
(B) Test the program.
(C) Define the problem.
(D) Evaluate solutions.

48. What Pascal statement is used to output results in a program?

(A) Read
(B) Write
(C) Start
(D) Print

49. In the programming language Pascal, which of the following is NOT a standard data type?

(A) Floating point
(B) Char
(C) Boolean
(D) Integer

50. During the development of a program, writing an algorithm is a step towards

(A) planning the solution
(B) defining the problem
(C) debugging the program
(D) maintaining the program

51. Which of the following is a valid integer constant?

(A) 0.37
(B) 37.0
(C) 370
(D) 3 700

52. In preparing a computer program, the programmer should FIRST

(A) plan the solution
(B) define the problem
(C) code the progress
(D) prepare program documentation

53. The purposes of comments in program code are to

I. allow persons who read it to follow the processes
II. allow persons to know the purpose of the program
III. enable persons who read to generate complex codes

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

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 following are examples of computer programming instructions:

Sort customer by last name
Total income by department

To what generation of programming language do these belong?

(A) First
(B) Second
(C) Third
(D) Fourth

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

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

60. A compiler is software that converts the

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

END OF TEST

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