FORM TP 2017079

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 2017

CARIBBEAN EXAMINATIONS COUNCIL

CARIBBEAN SECONDARY EDUCATION CERTIFICATE® EXAMINATION

INFORMATION TECHNOLOGY

Paper 01 – General Proficiency

1 hour 30 minutes

30 MAY 2017 (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 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 (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. Which of the following are considered computer hardware?

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

Item 2 refers to the following specification about a processor for a laptop.

Intel Pentium V 64-bit 3.6GHZ

2. What does 64-bit mean in this specification?

(A) The processor can process 8 characters at one time.
(B) The processor can process 4 characters at one time.
(C) The processor can access 8 characters at one time.
(D) The processor can access 4 characters at one time.

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

(A) nanoseconds
(B) milliseconds
(C) megahertz
(D) gigahertz

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

(A) Printer
(B) Plotter
(C) Monitor
(D) Microfilm

5. The smallest unit of storage in a computer is a

(A) bit
(B) byte
(C) kilobyte
(D) gigabyte

6. Which of the following is a hardware interface specially designed for use by a visually impaired person?

(A) Natural language
(B) Braille keyboard
(C) Touch screen
(D) Sensor

7. How many states can a bistable device assume?

(A) Zero
(B) One
(C) Two
(D) Three

8. The task of keeping a company's data files and software organized through the cataloguing and storing of tapes and disks is that of

(A) an IT manager
(B) a file librarian
(C) a systems analyst
(D) a database administrator

9. What does the spellcheck feature attempt to do?

(A) Indicate spelling errors
(B) Restrict unwanted words
(C) Restrict unwanted characters
(D) Indicate spelling and grammatical errors

GO ON TO THE NEXT PAGE

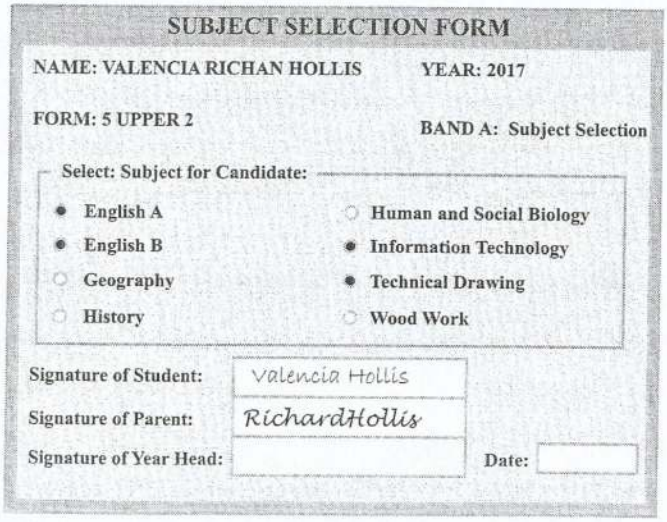
10. Which of the following is NOT a function of the control unit (CU)?

(A) To perform arithmetic operations
(B) To read and interpret machine instructions
(C) To coordinate the operation of the internal registers
(D) To control the sequencing of machine instruction

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

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

Item 12 refers to the following picture.


SUBJECT SELECTION FORM

NAME: VALENCIA RICHAN HOLLIS YEAR: 2017

FORM: 5 UPPER 2 BAND A: Subject Selection

Select: Subject for Candidate:

- (•) English A
- (•) English B
- ( ) Geography
- ( ) History
- ( ) Human and Social Biology
- (•) Information Technology
- (•) Technical Drawing
- ( ) Wood Work

Signature of Student: Valencia Hollis

Signature of Parent: RichardHollis

Signature of Year Head: Date:

12. Which of the following types of documents is shown in the picture?

(A) Source
(B) Turnaround
(C) Machine readable
(D) Human readable

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

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

14. Which of the following is a communication mode that transfers signals between two connected devices in one direction only?

(A) Half duplex
(B) Broadband
(C) Simplex
(D) Duplex

15. A system that analyses data, and uses rules and previous information to deliver possible decisions is called

(A) a robot machine
(B) an expert system
(C) a biometric machine
(D) a mainframe computer

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. 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)

18. An official of Company X sells confidential information about his company to Company Y. What is the term used for this type of information misuse?

(A) Identity theft
(B) Computer fraud
(C) Industrial espionage
(D) Electronic eavesdropping

19. Brenda entered 2061 instead of 2016 in a form. What type of error does this represent?

(A) Transpositional
(B) Typographical
(C) Proofreading
(D) Spelling

20. Data that has been processed and has meaning is termed

(A) information
(B) database
(C) storage
(D) output

21. Records on magnetic tape are stored

(A) directly
(B) randomly
(C) sequentially
(D) indexed sequentially

22. Which of the following statements is NOT true of 3½" floppy disks?

(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 users in different countries to talk to each other?

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

24. Which of the following can be termed 'application software'?

(A) DOS
(B) Linux
(C) Mac Os
(D) Internet Explorer

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. Harry interacts with his computer by entering word based instructions via the keyboard. This is an example of which of the following interfaces?

(A) Menu driven
(B) Graphical user
(C) Keyboard driven
(D) Command driven

28. Shirt sizes from 8 to 18 were entered into an inventory. Which of the following is a suitable check to ensure that the correct shirt size is entered?

(A) Range
(B) Verification
(C) Inconsistency
(D) Reasonableness

29. An advantage of electronic information processing is

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

30. Which of the following is an example of a physical access restriction used to secure data?

(A) Firewall
(B) Password
(C) Encryption
(D) Biometric system

31. Selecting or highlighting a paragraph creates a

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

32. Which of the following buttons can be used to fully justify text?

(A) 

(B) 

(C) 

(D) 

33. A primary key that comprises two or more field names is called

(A) a foreign key
(B) an alternate key
(C) a composite key
(D) a candidate key

34. Which of the following is NOT part of website maintenance?

(A) Selecting a domain name
(B) Adding new pages as needed
(C) Changing web content as necessary
(D) Removing hyperlinks that are no longer required

35. A student is engaged in preparing a project for submission and is working in MS Word. He wishes to have his student number appear at the top of each evenly numbered page and his name appear at the top of each odd numbered page. Which of the following word processing features should he use?

(A) Header
(B) Footer
(C) Manual typing
(D) Copy and paste

Item 36 refers to the following table containing data on three countries, A, B and C, for 2009 and 2010.

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

36. Which of the following types of charts is NOT suitable for representing the data above?

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

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

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

38. Slides can be arranged using

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

39. The use of speaker notes in a presentation software

(A) helps to organize slides
(B) helps the audience to read them
(C) inserts sound into the presentation
(D) reminds the presenter what to say about each slide

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

(A) Database
(B) Spreadsheet
(C) Presentation
(D) Word processing

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

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

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

Items **43–45** refer to the following spreadsheet.

	A	B	C	D	E	F
1	PHONE MODEL	PRICE	NUMBER IN STOCK	NUMBER SOLD	STOCK BALANCE	REORDER LEVEL
2	CP292	9.99	26	12		15
3	PC298	29.99	40	26		20
4	CP299	21.99	32	10		20
5	CP304	29.99	20	2		10
6	CP305	32.75	22	2		12
7	CP306	16.99	19	7		10
8	CP307	16.99	17	9		10
9	MB607	4.99	42	20		20
10	MB608	11.99	64	32		20

43. The values in Column B should be formatted using the

(A) comma format
(B) money format
(C) currency format
(D) percentage format

44. Which formula should be placed in Cell E2 to obtain the stock balance?

(A) =C2–D2
(B) =C2–F2
(C) =D2–C2
(D) =F2–D2

45. The function to display the text 'LOW' in cell G2 is

(A) =IF(E2>F2, "LOW")
(B) =IF(E2–F2, "LOW")
(C) =IF(E2<F2, "LOW")
(D) = IF(F2–E2, "LOW")

46. To which of the following code structures does the IF_THEN_ELSE construct belong?

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

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

Item **49** refers to the following algorithm.

```
Write ("Enter price: ")     (1)
Read (price)                (2)
Vat: = price * 15%          (3)
Write vat                   (4)
```

49. Which line contains a processing statement?

(A) 1
(B) 2
(C) 3
(D) 4

50. The term 'top-down stepwise refinement' used in programming means

(A) breaking down a complex problem into a set of simple subproblems
(B) selecting the best solution to a complex problem
(C) dividing a complex problem into two halves
(D) creating several solutions to a problem

51. When implementing a program, which of the following steps comes after executing?

(A) Linking
(B) Compiling
(C) Maintaining
(D) Interpreting

52. Which of the following is NOT a high-level programming language?

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

53. The LAST step in solving a problem is to

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

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

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

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 a characteristic of a high-level language?

(A) It is machine dependent.
(B) It uses three-word commands.
(C) It uses English-like statements.
(D) It is harder to write than machine language.

Item 58 refers to the following fragment of code.

```
Var
Country: Array [1:20] of char;
Ctry: char;
Write ("Enter country:  ")
For x: = 1 TO 20 DO
        Read (ctry);
        Country [x]: = ctry
Endfor
```

58. Which of the following statements describes the function of the code above?

(A) Enter 20 countries.
(B) Print the names of 20 countries.
(C) Search for 20 characters in an array.
(D) Read in 20 characters and store them in an array.

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.