FORM TP 2019015

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

TEST CODE 01229010

JANUARY 2019

CARIBBEAN EXAMINATIONS COUNCIL

CARIBBEAN SECONDARY EDUCATION CERTIFICATE® EXAMINATION

INFORMATION TECHNOLOGY

Paper 01 – General Proficiency

1 hour 30 minutes

18 JANUARY 2019 (a.m.)

841

A000

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

   ● Ⓑ Ⓒ Ⓓ

   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.

Copyright © 2018 Caribbean Examinations Council
All rights reserved.

1. Which of the following sequences shows an increase in computer memory capacity?

(A) Terabyte → Gigabyte → Megabyte
(B) Gigabyte → Kilobyte → Megabyte
(C) Megabyte → Terabyte → Gigabyte
(D) Megabyte → Gigabyte → Terabyte

2. Which of the following operations displays results?

(A) Input
(B) Output
(C) Storage
(D) Processing

3. Which of the following statements is true about the arithmetic and logic unit (ALU)?

(A) Stores data permanently
(B) Performs mathematical calculations
(C) Is also called memory or main memory
(D) Sequentially accesses and decodes program instructions

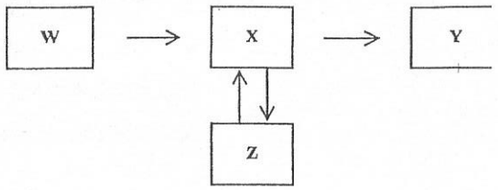
4. Which of the following types of drives has the SLOWEST transfer rate?

(A) Flash
(B) Hard disk
(C) DVD disk
(D) Floppy disk

5. Which of the following is an example of the type of data that visually records meetings?

(A) Text
(B) Video
(C) Audio
(D) Graphics

Item 6 refers to the following diagram which shows the basic operations of a general-purpose computer system.



6. Which of the following functions is carried out in box Z?

(A) Input
(B) Output
(C) Storage
(D) Processing

7. Which part of the central processing unit (CPU) coordinates its activities?

(A) Register
(B) Control unit
(C) Main memory
(D) Arithmetic and logic unit

8. Which of the following is a hardware user interface?

(A) GUI
(B) Icon
(C) Sensor
(D) Touchscreen

9. Which of the following chips can be erased and reprogrammed repeatedly?

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

10. Which of the following devices can be used for both input and output?

(A) Touchscreen
(B) Barcode reader
(C) Flatbed scanner
(D) Document reader

11. Telecommuting means using information and communication technology at home to

(A) hold conferences
(B) sell and buy products
(C) send and receive e-mails
(D) work away from the office

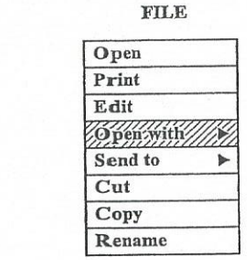
12. What is the function of a network of computers?

(A) Organizes data among computers
(B) Receives data from one computer
(C) Enables two or more computers to communicate
(D) Allows users to obtain data from a central computer

13. The activity which involves conducting a meeting electronically with participants in different geographical locations is called

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

Item 14 refers to the following diagram.



14. The diagram above represents a

(A) button
(B) window
(C) pop-up menu
(D) pull-down menu

15. The illegal copying and selling of programs is referred to as

(A) propaganda
(B) software piracy
(C) computer fraud
(D) industrial espionage

16. Before purchasing a computer, James was given a sheet with the following hardware specifications.

Intel Pentium IV 64 bit 3.6 GHz
2 GB 533 MHz SDRAM
160 GB SATA HDD 7200 rpm

The word size of the computer is

(A) 2 GB
(B) 64 bit
(C) 7200 rpm
(D) 533 MHz

17. The part of a private network which uses Internet technology and public telecommunications and can be accessed by business suppliers, vendors, customers and partners is called an

(A) intranet
(B) Internet
(C) extranet
(D) ethernet

18. Which device is essential for computer-controlled systems to function with precision in an assembly line?

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

19. What is the decimal equivalent for the binary number 101?

(A) 2
(B) 4
(C) 5
(D) 8

20. A socket which is provided in a computer to allow for additional components is known as

(A) a fire wire
(B) a system bus
(C) an expansion slot
(D) an expansion card

21. Which of the following is the hexadecimal representation of the decimal number 300_{10}?

(A) 1FF
(B) 3FF
(C) 1C2
(D) 12C

22. Which of the following types of hardware is MOST suitable for printing building plans?

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

23. Which of the following types of technology is commonly used by banks to read data on cheques?

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

24. CAD is MAINLY used by

(A) engineers
(B) musicians
(C) medical personnel
(D) mass media personnel

25. Records on magnetic tape are stored

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

26. Which of the following devices uses a duplex communication mode?

(A) Baby monitor
(B) Walkie-talkie
(C) Telephone
(D) Radio

Item 27 refers to the following types of memory.

I. ROM
II. RAM
III. EPROM

27. Which of the above types of memory are non-volatile?

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

28. Which of the following transmission media uses fibre-optics?

(A) Cable
(B) Wi-Fi
(C) Satellite
(D) Bluetooth

29. To get to record number 50 from the beginning of a tape of 100 records, you would have to

(A) convert to disk
(B) go directly to record 50
(C) first read records 1 through 49
(D) fast forward to record 100 and then read backward

30. Which of the following types of connection provides the SLOWEST Internet access?

(A) Dial-up
(B) T1 line
(C) Network
(D) Digital subscriber line (DSL)

31. What will be displayed when the following algorithm is executed?

```
y = 5
x = y
y = 10
z = 3
x = x + y
y = x - z
z = x + y + z
display x, y, z
```

(A) 5, 10, 3
(B) 15, 12, 3
(C) 15, 12, 20
(D) 15, 12, 30

32. The MOST appropriate data type for storing the amount of interest earned on a sum of money is

(A) real
(B) char
(C) string
(D) integer

33. Which Pascal format is used to declare an array?

(A) Let Marks = [8]
(B) Array = Marks(8);
(C) Var Marks: Array [1..8] of integer;
(D) Dim Marks (8) as integer

34. John has written a program to accept student fees. Some students are exempted from paying fees while other students pay fees from $1 to $50. Which of the following values may be used to test the program?

I. 2
II. 10
III. 42

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

35. What does the symbol  represent in information technology?

(A) Start/Stop
(B) Decision
(C) Process
(D) Input

36. A programmer writes the following pseudo-code that will accept THREE numbers from the user and find and display their average.

Step 1: Start
Step 2: read n_1, n_2, n_3
Step 3:
Step 4: write average
Step 5: stop

Which of the following statements should be placed in Step 3?

(A) Set average ← (n_1 * n_2 * n_3)
(B) Set average ← (n_1 + n_2 + n_3)
(C) Set average ← (n_1 + n_2 + n_3)/3
(D) Set average ← (n_1 + n_2 + n_3)/2

37. Which of the following is considered a component of a user manual?

(A) Trace table
(B) Source code
(C) Installation steps
(D) Program flowchart

841

A000

Items 38–39 refer to the following fragment of Pascal code.

```
For x := 2 TO 15 DO
Begin
        Write ("Enter the name of a country:  ");
        Read (Country)
End;
```

38. How many times will the program above be executed?

(A) 2
(B) 14
(C) 15
(D) 16

841

39. Which fragment of code would be the CORRECT option to output the prompt and enter the name of the country on two lines?

(A)
```
Read ("Enter the name of a country:  ");
Write Country
```

(B)
```
Write  ("Enter the name of a country:  ");
Read Country
```

(C)
```
Readln ("Enter the name of a country:  ")
Readln (Country);
```

(D)
```
Writeln ("Enter the name of a country:  ");
Readln(Country);
```

---

40. Assigning 'P' to GRADE means that GRADE should be declared as

(A) real
(B) char
(C) string
(D) integer

41. Which of the following statements is the declaration of an integer data type in a Pascal program?

(A) VAR integer number;
(B) VAR integer: = number;
(C) VAR number : integer;
(D) VAR number; // integer

A000

Items 38–39 refer to the following fragment of Pascal code.

```
For x := 2 TO 15 DO
Begin
        Write ("Enter the name of a country:  ");
        Read (Country)
End;
```

38. How many times will the program above be executed?

(A) 2
(B) 14
(C) 15
(D) 16

841

39. Which fragment of code would be the CORRECT option to output the prompt and enter the name of the country on two lines?

(A)
```
Read ("Enter the name of a country:  ");
Write Country
```

(B)
```
Write  ("Enter the name of a country:  ");
Read Country
```

(C)
```
Readln ("Enter the name of a country:  ")
Readln (Country);
```

(D)
```
Writeln ("Enter the name of a country:  ");
Readln(Country);
```

A000

40. Assigning 'P' to GRADE means that GRADE should be declared as

(A) real
(B) char
(C) string
(D) integer

41. Which of the following statements is the declaration of an integer data type in a Pascal program?

(A) VAR integer number;
(B) VAR integer: = number;
(C) VAR number : integer;
(D) VAR number; // integer

GO ON TO THE NEXT PAGE

42. Which of the following numbers is of type **real**?

(A) –37
(B) 14.375
(C) 15
(D) 375

43. The decision box of a program flowchart shows the

(A) link to another page
(B) test to be carried out
(C) calculations to be done
(D) input and output operators

841

44. Into which of the following generations is machine language categorized?

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

45. Program testing can be described as

I. checking that all documentation is included in the program
II. executing the program manually with input values to see the results
III. running the program using sample data to identify errors in the program

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

A000

46. Extracting information from a database can be achieved through the use of

(A) files
(B) objects
(C) queries
(D) reports

47. A single row of data in a database is called a

(A) record
(B) table
(C) field
(D) file

48. What is the correct order of the steps used to change the font of text on a slide?

I. Select the text.
II. Select the slide you want to change
III. Select the font you want to use.
IV. On the formatting toolbar, click the arrow next to the font box.

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

Item 49 refers to the following spreadsheet

	A	B	C	D	E	F	G
1							
2		17					
3		35					
4		45					
5		39					
6							
7							

49. To add the values 17, 35, 45 and 39 in the spreadsheet above, which function should be placed in cell B6?

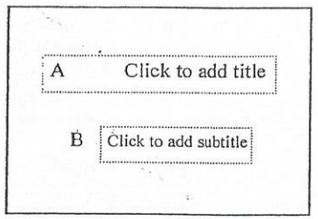
(A) =SUM(B2:B5)
(B) =SUM(B2:B6)
(C) =ADD(B2:B5)
(D) =COUNT(B2:B6)

GO ON TO THE NEXT PAGE

50. Which of the following is used for executing HTML code?

(A) A parser
(B) A browser
(C) An assembler
(D) An interpreter

Item 51 refers to the following graphic.



51. At which stage of a presentation will the above slide appear as the default?

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

52. A slide show can be immediately stopped by

(A) left clicking
(B) right clicking
(C) pressing the F5 key
(D) pressing the Esc key

53. What type of cell addressing must be used to keep the cell address in a formula the same when it is copied to another cell?

(A) Fixed
(B) Direct
(C) Relative
(D) Absolute

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

(A) Footer
(B) Header
(C) Mail merge
(D) Search and replace

55. Which of the following PowerPoint presentation icons represents the slide sorter?

(A) 

(B) 

(C) 

(D) 

56. In order to perform a block operation in a word processing application, the required text must first be

(A) cut
(B) copied
(C) aligned
(D) selected

841

A000

GO ON TO THE NEXT PAGE

57. Which of the following types of software would be the MOST appropriate for showing information in tables and reports?

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

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

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

59. Which of the following is normally used for website-to-website connections?

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

60. Which of the following activities is LEAST likely to require a PowerPoint presentation?

(A) Data collection
(B) Public speaking
(C) Lecture delivery
(D) Sales or marketing idea presentation

841

A000

END OF TEST

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

SUBJECT: Information Technology:-01 PROFICIENCY: GENERAL CANDIDATE NAME: _____

A REGISTRATION NUMBER

C TEST CODE

CARIBBEAN EXAMINATIONS COUNCIL

MULTIPLE CHOICE ANSWER SHEET

E

GRIDDING OCCURRENCES	1	2	3	4
GRIDDER INITIALS				
CHECKER INITIALS				
SCANNING OCCURRENCES	1	2	3	4

D ABSENT

SIGNATURE OF CANDIDATE

AT THE END OF THE EXAMINATION PLACE THIS ANSWER SHEET BETWEEN THE MIDDLE PAGES OF THE QUESTION PAPER BOOKLET THEN SEAL THE TOP, BOTTOM AND FORE EDGE OF THE BOOKLET USING THE THREE SEALS PROVIDED.

B MARK YOUR ANSWERS BELOW

1 C	11 D	21 C	31 C	41 B	51 A
2 B	12 D	22 A	32 A	42 B	52 B
3 B	13 C	23 C	33 B	43 B	53 C
4 C	14 B	24 A	34 C	44 A	54 B
5 B	15 B	25 B	35 B	45 B	55 B
6 B	16 B	26 B	36 B	46 B	56 C
7 B	17 B	27 B	37 B	47 A	57 A
8 C	18 A	28 A	38 B	48 B	58 A
9 C	19 B	29 B	39 C	49 A	59 C
10 A	20 B	30 A	40 B	50 B	60 A

IF THERE ARE MORE THAN 60 QUESTIONS TURN OVER AND CONTINUE ON THE OTHER SIDE

Printed in U.S.A. Mark Reflex® by NCS MM1103259:3 A1803