AFFIX SEAL HERE

CANDIDATE – PLEASE NOTE!

You must sign below and return this booklet with the Answer Sheet. Failure to do so may result in disqualification.

Signature

FORM TP 2010081

TEST CODE 01229010

MAY/JUNE 2010

CARIBBEAN EXAMINATIONS COUNCIL

SECONDARY EDUCATION CERTIFICATE EXAMINATION

INFORMATION TECHNOLOGY

Paper 01 – General Proficiency

90 minutes

01 JUNE 2010 (a.m.)

1800

READ THE FOLLOWING INSTRUCTIONS CAREFULLY.

1. This test consists of 60 items. You will have 90 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.

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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 perform input into the computer?

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

2. Which of the following is NOT a part of a diskette?

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

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

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

4. 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

5. 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

6. Identify the list that is arranged starting from the BEST TO WORST print quality.

   (A) Laser, dot matrix, inkjet
   (B) Inkjet, dot matrix, laser
   (C) Laser, inkjet, dot matrix
   (D) Dot matrix, ink jet, laser

7. Which of the following is NOT an audio output device?

   (A) Microphone
   (B) Earphone
   (C) Headphone
   (D) Speakers

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. The storage capacity of a floppy disk is

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

11. The process of preparing a floppy disk to store data from a computer is called

    (A) deleting
    (B) easing
    (C) formatting
    (D) archiving

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12. An example of a **point and draw** device is a

(A) keyboard
(B) joystick
(C) mouse
(D) scanner

13. An application in which scanners are commonly used is

(A) publishing
(B) billing
(C) printing reports
(D) cheque processing

14. Which of the following does NOT provide serial access?

(A) Reel to reel tape
(B) Microfilm
(C) Microfiche
(D) Cartridge tape

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. Google is an example of

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

18. A new employee at a financial company has been asked to set a password on her computer. She has tried setting the password on several occasions but gets an error message which says "password not effective". The problem can be corrected by entering a password that is

(A) made up of several numbers
(B) a relative's name
(C) composed of at least six upper case characters
(D) a mixture of mixed case and alphanumeric characters

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

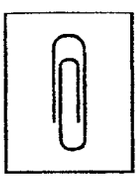
(A) Hyper Text Transfer Protocol
(B) Hyper Text Transmission Protocol
(C) Higher Text Transmission Protocol
(D) Higher Text Transfer Protocol

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22. E-mail is the transmission of messages and files via a computer network. E-mail is short for

(A) encrypted mail
(B) emerging mail
(C) entertainment mail
(D) electronic mail

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. 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

25. 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

26. Which of the following statements is true of a transaction file?

(A) It is the most complete and up-to-date file.
(B) It is used as a back-up copy.
(C) It is used for real-time processing.
(D) It is used to update the master file.

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

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

28. Data verification is checking for

(A) particular data types
(B) data in a specific range
(C) transcription errors
(D) correct relationships between files

Items **29 - 30** refer to the document below which shows a water bill.

Account Number	Meter Number	Bill Days	SECTION A	
			Account Number	Bill Date
			111222-3	2009/12/04
			TOTAL	DATE DUE
			$25.41	2009/12/29
			Mr Tom Bill 21 Hill Top View ST MICHAEL B. Post cheque to: P O Box 1206 Bridgetown	

29. Customers tear off Section A of the bill and return the section and their payment to the company. The document above is BEST described as

(A) an automated document
(B) a turnaround document
(C) a source document
(D) a transaction document

30. Which type of technology is the information shown as B in the document MOST likely printed in?

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

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31. Slide design in a presentation software is used to

(A) create a background for the slide
(B) create your own design for the slide
(C) create a layout for the slide
(D) create a style for the slide

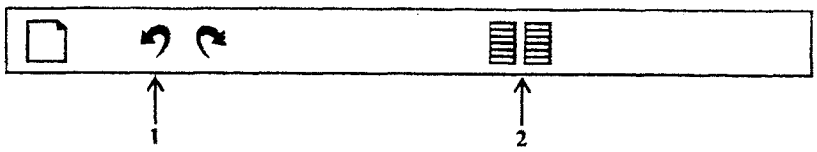
32. Which of the following are uses of a typical presentation software?

I. To enhance public speaking
II. To store records in a structural fashion
III. To create graphs of sales
IV. To deliver lectures

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

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Items 33 - 34 refer to the diagram below which shows a section of the Standard Toolbar of a word processing package.



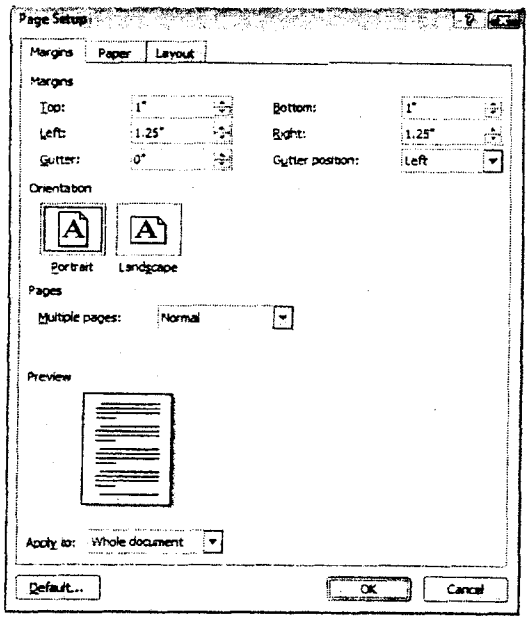
33. The name of the icon labelled '1' is

(A) undo
(B) repeat
(C) wordwrap
(D) text alignment

34. The purpose of the icon labelled 2 is to

(A) align text on the left and right margin
(B) increase the indentation of the selected paragraph(s)
(C) increase columns in documents
(D) display the grid to select columns and rows

Item 35 refers to the diagram shown below.



35. The diagram above is called the

(A) page setup dialog box
(B) paragraph dialog box
(C) clipboard task pane
(D) format dialog box

36. 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

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

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

38. When a cell from a spreadsheet is absolute referenced,

(A) its value becomes constant
(B) its cell address becomes constant
(C) its label becomes constant
(D) its cell value changes automatically

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 is NOT involved in extraction or filtering of records in spreadsheets?

(A) Value range
(B) Criteria range
(C) List range
(D) Copy to range

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. The term used to describe an attribute that can function like a primary key is a

(A) candidate key
(B) secondary key
(C) foreign key
(D) composite key

43. Which of the following is/are true of secondary keys?

I. They are used strictly for data retrieval purposes.
II. They are always in text form.
III. They do not contain null values.
IV. They do the same function as a foreign key.

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

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

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

45. In a relational database, **tables** are also called

(A) tuples
(B) files
(C) relations
(D) entity

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

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47. Consider the following algorithm

Sum ← 0
Read a, b
Sum ← a+b
Write Sum

In the above algorithm, 'sum ← 0' represents

(A) a declaration
(B) a computation
(C) an initialization
(D) an assignment

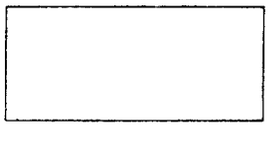
48. In the programming language Pascal, which of the following is NOT a standard data type?

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

49. Which of the following structures is most commonly used to implement a **post-test** loop in Pascal?

(A) for – do
(B) while – do
(C) if – then
(D) repeat – until

50. 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

51. The purpose of comments in program code is to

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

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

52. Which of the following are true about the use of indentation in programming?

I. To make the layout of the code attractive
II. For compiler/interpreter to identify errors easily
III. For easy understanding of the order of code
IV. For easy correction of syntax errors

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

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

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

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

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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. 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

57. The result of the expression **3 mod 4** is

(A) 0
(B) 1
(C) 3
(D) 4

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

(A) =
(B) ←
(C) :=
(D) ==

59. The variable **total** is assigned the value 12. Which output shows the CORRECT display when the Pascal code **writeln ('total = ');** is executed?

(A) total =
(B) 12
(C) total = 12
(D) ' total = '

60. Which of the following identifiers is a valid variable name?

(A) Begin
(B) iCount
(C) Num-1
(D) 5Sum

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