1. When the computer is working on given instructions, it is called

   (A) output
   (B) storage
   (C) processing
   (D) input

2. Hexadecimal has a base value of

   (A) 6
   (B) 8
   (C) 16
   (D) 18

3. Which of the following is NOT a function of the control unit?

   (A) Read instructions
   (B) Interpret instructions
   (C) Direct operations
   (D) Execute instructions

4. The unit of storage used to represent a character is

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

5. Which of the following storage media provides sequential access only?

   (A) Floppy disk
   (B) Magnetic disk
   (C) Magnetic tape
   (D) Optical Disk

6. Which of the following storage media uses laser technology to store data?

   (A) Floppy disk
   (B) Magnetic tape
   (C) CD ROM
   (D) Hard Disk

7. The technology used to read pencil or pen marks on a multiple choice answer sheet is

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

8. The variable CustBalance stores the amount of money owed by customers. CustBalance is MOST likely of data type

   (A) integer
   (B) character
   (C) real
   (D) array

9. The MOST suitable device for the output of architectural drawing is a

   (A) plotter
   (B) laser printer
   (C) graphics tablet
   (D) light pen

10. Which of the following output is an example of a hardcopy?

    (A) An oral speech delivered by a speaker
    (B) A bill produced from a printer
    (C) The display on a monitor
    (D) A picture on a wall produced from a multimedia projector

11. The decimal equivalent of 00001111_2 is

    (A) 8
    (B) 12
    (C) 15
    (D) 28

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12. The BCD representation of (−15) is

   (A)   100000011111
   (B)   101100101111
   (C)   000000011111
   (D)   101100010101

13. In modern computers, the CPU speed is measured in

   (A)   kilo hertz
   (B)   giga bytes
   (C)   kilo bytes
   (D)   giga hertz

14. Which of the following is NOT a type of application software?

   (A)   Word processor
   (B)   Spreadsheets
   (C)   Windows
   (D)   Smart Draw

15. Which of the following is NOT function of an operating system?

   (A)   Control input/output operations
   (B)   Provide security
   (C)   Perform calculations
   (D)   Provide a friendly interface

16. An example of multitasking is

   (A)   doing a background save while typing a document
   (B)   allowing many users to use the same program
   (C)   allowing one user to use one program
   (D)   opening one program by many users

17. Quality Developers is a company that writes programs to do specific jobs for other companies. These programs are called

   (A)   general-purpose software
   (B)   special-purpose software
   (C)   custom-purpose software
   (D)   off-the-shelf software

18. Which of the following is NOT a software interface?

   (A)   Command-driven
   (B)   Touch screen
   (C)   Menu-driven
   (D)   Graphical User Interface(GUI)

19. An airline reservation system is an example of

   (A)   batch processing
   (B)   real time processing
   (C)   interactive processing
   (D)   distributed processing

20. The name of the interface used by blind persons to perform operations on a computer is

   (A)   sensor
   (B)   icon
   (C)   braille
   (D)   touch screen

21. Which of the following is NOT a type of transmission medium?

   (A)   Coaxial
   (B)   Twisted pair
   (C)   Modem
   (D)   Microwave

22. Persons at a downtown cafe realized that they were able to access the Internet on their laptop computers. The cafe could be considered as a

   (A)   metropolitan area network
   (B)   hotspot
   (C)   local area network
   (D)   satellite

23. Which of the following technologies does NOT facilitate the transferring of data between computers in adjacent buildings?

   (A)   Fibre optic
   (B)   Bluetooth
   (C)   Twisted pair
   (D)   Microwave

24. A group of persons who share common interests and communicate by posting messages and replies on the Internet is referred to as a/an

   (A)   podcast
   (B)   newsgroup
   (C)   uploader
   (D)   surfer

25. Uploading or downloading data to or from a remote computer is done using

   (A)   file transfer protocol
   (B)   inter relay chat
   (C)   blogging
   (D)   instant messaging

26. Each website on the Internet can be accessed by entering a unique address. This address is referred to as the

   (A)   HTTP
   (B)   HTML
   (C)   FTP
   (D)   URL

27. Which of the following items CANNOT be sent via email?

   (A)   Text documents
   (B)   Parcels
   (C)   Sound files
   (D)   Graphic images

28. Which of the following pairs of items is used to create a web page?

   (A)   Homepage and Website
   (B)   HTML and authoring tool
   (C)   ISP and web browser
   (D)   Internet and URL

29. Which ONE of the following statements BEST describes the term 'information'?

   (A)   It is raw facts.
   (B)   It is meaningful.
   (C)   It is not the result of processing.
   (D)   Does not have any value.

30. Which of the following control structures is the MOST appropriate for reading data from an array?

   (A)   Sequence
   (B)   Selection
   (C)   Repetition
   (D)   Recursion

31. In word processing, an efficient way to move the 3rd paragraph to place it after the 5th paragraph is

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

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32. Presentation software allows the user to

  I.   track changes
  II. design tables
  III. enhance public speaking
  IV. develop graphs to report on sales data

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

33. Which of the following actions is NOT considered to be a computer crime?

  (A) Encryption
  (B) Piracy
  (C) Industrial Espionage
  (D) Hacking

34. Which of the following precautions is NOT a physical restriction with respect to data security?

  (A) Firewall
  (B) Locking up the hardware
  (C) Fire proof cabinets
  (D) Biometric systems

35. The pair of files used to produce merged letters during a mail merge is

  (A) primary document and data source
  (B) primary document and merged letters
  (C) data source and merged letters
  (D) primary document and current letter

36. Text entered into a spreadsheet is aligned towards the left by default. These entries are called

  (A) values
  (B) labels
  (C) formulae
  (D) functions

37. Which of the following formatting features is unique to numbers in spreadsheets?

  (A) Bold
  (B) Custom
  (C) Italics
  (D) Indent

38. To centre the title rows of a spreadsheet across the columns

  (A) centre align the title rows
  (B) centre align the title columns
  (C) merge and centre title rows
  (D) merge and centre title columns

39. Formulae in a spreadsheet involve

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

40. Telecommuting can be BEST described as

  (A) making a communication between two companies
  (B) working from home by connecting home and office
  (C) working from home by having employees at home
  (D) making a communication between home and office

41. Which of the following statements is NOT true of primary keys?

  (A) They do not contain blank value.
  (B) They are unique identifiers.
  (C) They are always in text form.
  (D) They may be composed of one or more attributes.

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42. Which of the following duties is NOT expected of a database administrator?

(A) Creating and maintaining data dictionary
(B) Managing security
(C) Maintaining performance
(D) Writing programs

43. Which of the following terms does NOT refer to a form of information processing?

(A) Process control
(B) Data validation
(C) Automation
(D) Scientific data processing

44. Methods that can be used for validation and verification of data are

(A) range checks
(B) data type checks
(C) inconsistency checks
(D) all of the above

45. A field in a table that appears as a match of the primary key in another table is called a

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

46. Given the following algorithm

```
j = 5
k = j
j = j + k
k = j + 3
display k
```

the value displayed for k is

(A) 10
(B) 11
(C) 13
(D) 14

47. The following variables s, t and u have been assigned the values shown.

$s = 5$
$t = 6$
$u = 3$

Which of the following statements does NOT evaluate to true?

(A) u > 7 and t < = 7
(B) s < t or u < s - 2
(C) u – 2 >= 1
(D) t <> 4 or s = 5

48. Which of the following algorithms satisfies the requirement of asking the user to input two numbers, calculating the average and displaying the result?

(A) ```
display 'Enter two numbers'
input a, b
c = (a+b)/2
display c
```

(B) ```
input a, b
c = (a+b)/2
display c
```

(C) ```
display 'Enter two numbers'
input a, b
c = a+b/2
display c
```

(D) ```
input a, b
c = a + b/2
display c
```

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49. Which of the following algorithms does NOT display four consecutive numbers?

(A)   for v = 2 to 5
            display v

(B)   h = 1
            while h < 5
              display h
              h = h + 1
            end while

(C)   for k = 7 down to 4 step -1
            display k

(D)   f = 6
            while f < 3
              display f
              f = f - 1

50. The variables h and s are assigned the following values, h = 4 and s = 3 * h. Display h + s * 2 will show

(A)   28
(B)   30
(C)   32
(D)   38

51. Which of the following languages is only understood by computers?

(A)   4 GLs
(B)   Machine languages
(C)   Natural Languages
(D)   Procedural languages

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

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

53. Errors that occur in a program when the rules of the programming languages are NOT obeyed are called

(A)   Syntax errors
(B)   Logical errors
(C)   Execution errors
(D)   Run-time errors

54. Which of the following is NOT a type of program error?

(A)   Logic error
(B)   Syntax error
(C)   Run time error
(D)   Debug error

55. Which of the following is not a term used to describe the process of manually going through a program looking for errors?

(A)   Tracing
(B)   Dry run
(C)   Debugging
(D)   Documentation

56. Which of the following is an example of a conditional construct?

(A)   For – Next
(B)   If- then-else
(C)   While – endwhile
(D)   For – endfor

57. Which of the following reserved words in Pascal displays data and places the cursor on a new line?

(A)   write
(B)   read
(C)   writeln
(D)   readln

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58. Program implementation involves a number of steps. Which of the following steps is NOT legitimate?

(A)   Executing
(B)   Bonding
(C)   Compiling
(D)   Linking

60. The term used to describe a memory location whose value changes during program execution is

(A)   constant
(B)   volatile
(C)   variable
(D)   dynamic

59. Which of the following identifiers is NOT a valid variable name?

(A)   input
(B)   totalCost
(C)   9Count
(D)   NumCount

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