

TEST 6

Item 1 refers to the diagram below



1. What should replace D, E and F to illustrate the major functions of the computer?
 - (A) D - Input
E - Output
F - Processing
 - (B) D - Input
E - Processing
F - Output
 - (C) D - Input
E - Processing
F - Storage
 - (D) D - Input
E - Output
F - Storage

2. The hardware component that fetches, decodes and executes instructions from the computer's memory is the
 - (A) Arithmetic and Logic Unit
 - (B) Control Unit
 - (C) Random Access Memory
 - (D) Register

3. EPROM is an abbreviation for
 - (A) Electrical Programmable Read Only Memory
 - (B) Electronic Programmable Read Only Memory
 - (C) Erasable Programmable Read Only Memory
 - (D) Expert Programmable Read Only Memory

4. The units of storage listed in descending order according to size are
 - (A) bit, byte, kilobyte
 - (B) byte, bit, kilobyte
 - (C) kilobyte, bit, byte
 - (D) kilobyte, byte, bit

5. All of the following are features of flash memory EXCEPT
 - (A) It is used in video game consoles, laptop computers, video camcorders
 - (B) It is also known as jump drives and memory sticks
 - (C) It has the capability to store more information than a CDROM
 - (D) It is volatile and fast to read

6. All of the following are general purpose interfaces used to connect internal storage devices within a computer system EXCEPT
- (A) CPU
 - (B) SATA
 - (C) SCSI
 - (D) USB
7. The concentric rings on a diskette that data can be recorded onto is referred to as
- (A) cylinders
 - (B) rings
 - (C) sectors
 - (D) tracks
8. A device that can be used to input architectural maps into the computer is a
- (A) digitizer
 - (B) light pen
 - (C) optical character reader
 - (D) plotter
9. The resolution of a monitor is usually measured in
- (A) bytes
 - (B) kilobytes
 - (C) megapixels
 - (D) pixels
10. If 6 bits is used to represent the decimal number 13 in sign and magnitude then the result will be
- (A) 001101
 - (B) 001011
 - (C) 101101
 - (D) 0001101
11. If the ASCII code for the letter "C" is 1000011, then the ASCII code representation for the letter "M" is
- (A) 1001001
 - (B) 1001100
 - (C) 1001101
 - (D) 1001110
12. $1011_2 - 101 =$
- (A) 101
 - (B) 110
 - (C) 1001
 - (D) 1011
13. During the start up procedure of a computer the first program which enters the memory is the
- (A) operating system
 - (B) random access memory
 - (C) word processing package
 - (D) spreadsheet package

14. The process of preparing a disk for storing information is
- (A) compiling
 - (B) defragmenting
 - (C) formatting
 - (D) zipping
15. The type of processing mode mainly used in a hotel reservation system is
- (A) Online
 - (B) Batch
 - (C) Time-sharing
 - (D) Real-time
16. The name given to a general set of tools that allows visual components, like icons, to be used in software is a
- (A) command driven interface
 - (B) graphical user interface
 - (C) menu
 - (D) touch screen
17. High-frequency radio signals that generally travel 50 – 100 km through the atmosphere are
- (A) bluetooth
 - (B) fibre optics
 - (C) microwaves
 - (D) voiceband
18. Before a computer can be part of a network, a main component it must have is a
- (A) network card
 - (B) firewall
 - (C) coaxial cable
 - (D) port
19. A mode of communication that allows data to be transmitted in one direction only is
- (A) complex
 - (B) full duplex
 - (C) half duplex
 - (D) simplex
20. Every host computer on the Internet has its unique address used to identify it called the
- (A) IP address
 - (B) TCP/IP
 - (C) URL
 - (D) VoIP
21. A document on the World Wide Web consisting of an HTML file and any related files for scripts and graphics is a
- (A) hyperlink
 - (B) protocol
 - (C) web page
 - (D) web site

22. Downloading a file involves
- (A) sending your file from your computer to other computers using the Internet
 - (B) obtaining a file from another computer on the internet
 - (C) transferring a file from the computer to the hard drive
 - (D) transferring a file from the hard drive to the computer
23. Scanning the retina of the eye for identification purposes is an example of
- (A) biometrics
 - (B) digital photography
 - (C) data integrity
 - (D) verification
24. The illegal copying of software is
- (A) copyright
 - (B) patent
 - (C) software piracy
 - (D) software plagiarism
25. Software that can be legally downloaded for free from the Internet is considered to be
- (A) customized
 - (B) custom-written
 - (C) open source
 - (D) proprietary
26. All of the following can be done using CADD software EXCEPT
- (A) constructing designs for bridges
 - (B) drawing up plans for new houses
 - (C) designing electronics and machinery
 - (D) interpreting designs and controlling machines
27. Which of the following statements are true?
- I. Data consists of raw facts
 - II. Information is processed data
 - III. Information can be used for making decisions
 - IV. A computer produces data only
- (A) II ONLY
 - (B) I, II and III ONLY
 - (C) II, III and IV ONLY
 - (D) All of the above
28. A system that carries out instructions automatically without human intervention once it is switched on BEST illustrates
- (A) automation
 - (B) data processing
 - (C) process control
 - (D) scientific processing

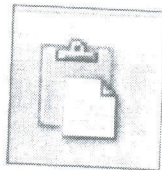
29. The type of validation check to ensure that a number entered is between 1 and 12 is a

- (A) consistency check
- (B) parity check
- (C) presence check
- (D) range check

30. Another term used for direct access is

- (A) indexed-sequential
- (B) random
- (C) sequential
- (D) transaction

Item 31 refers to the icon below.



31. This icon found in Microsoft Word when clicked is used as a shortcut for the command

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

32. The keyboard shortcut to insert a page break in a word processing document is

- (A) CTRL + A
- (B) CTRL + Backspace
- (C) CTRL + Insert
- (D) CTRL + Enter

33. The word processing feature used in the 2 of the text Y_2 is

- (A) font size
- (B) italics
- (C) subscript
- (D) superscript

34. To protect your document using a password, you can

- (A) backup your document
- (B) encrypt your document
- (C) save your document as a pdf file
- (D) None of the above

35. The MOST appropriate application package used to do a presentation to a group of students on "Studying Techniques" is

- (A) Microsoft Access
- (B) Microsoft Excel
- (C) Microsoft PowerPoint
- (D) Microsoft Word

36. The feature in a presentation software that is used to edit or view the current slide or selected slide in the centre of the screen is

- (A) normal view
- (B) outline view
- (C) print preview
- (D) slide show view

37. One way to do a presentation after it has been created using presentation software is

- (A) digital projection
- (B) on-screen
- (C) printed handouts
- (D) All of the above

38. In order to point to another document on the WWW, a home page uses a(n)

- (A) search engine
- (B) index page
- (C) thumbnail
- (D) hyperlink

39. A software tool that can be used to effectively depict how sales figures have varied over several years is

- (A) database system
- (B) spreadsheet ✓
- (C) web page
- (D) word processor

40. Each cell in a spreadsheet can be identified by a

- (A) active cell
- (B) cell pointer
- (C) cell reference ✓
- (D) label

41. Which of the following is equivalent to the spreadsheet formula shown below?

=SUM (a1:d1)

- (A) =A1 + D1
- (B) =A1+B1+C1+D1 ✓
- (C) =count(a1:d1)
- (D) None of the above

42. What is a concept of spreadsheets that can be seen in the formula shown below?

=D\$1+\$E\$1

- (A) absolute addressing
- (B) block selection
- (C) column insertion
- (D) relative addressing

43. A primary key that is made up of two or more fields is a

- (A) candidate key
- (B) composite key
- (C) foreign key
- (D) index key

44. The MOST appropriate data type in a database management system used for storing a combination of digits and characters (e.g. PART014) is

- (A) date
- (B) numeric
- (C) logical
- (D) text

45. To present your information from a database in a design of your choice, it is BEST to use a

- (A) form
- (B) query
- (C) report
- (D) table

46. Which one of the following cannot be used as an integer data type?

- (A) -12345
- (B) 0
- (C) 23
- (D) 2a

47. All of the following can be used to show the steps in solving a problem EXCEPT

- (A) data flow diagram
- (B) flowchart
- (C) program
- (D) pseudocode

48. In the truth table below, A, B and C should be replaced by

x	y	x AND y
false	false	false
false	true	false
true	false	false
A	B	C

- (A) false, false, false
- (B) true, true, false
- (C) true, true, true
- (D) none of the above

Questions 49 and 50 refer to the algorithm below.

```

j = 11
if j > 10 then
    while (j > 5) do
        j = j - 2
    print j

```

49. What is printed by the algorithm?

- (A) 3
- (B) 5
- (C) 11
- (D) 9 7 5 3

50. If j is set to 5 in the first statement, what will be printed?

- (A) 5
- (B) 10
- (C) 11
- (D) The loop will never stop and 3 will be printed continuously

51. Which of the following is an example of a second generation programming language?
- (A) Assembly
 - (B) Basic
 - (C) Machine
 - (D) Pascal
52. All of the following are examples of translators EXCEPT
- (A) assemblers
 - (B) compilers
 - (C) interpreters
 - (D) utilities
53. In a Pascal program, statements EXCEPT the last "END" are terminated by a
- (A) semi-colon
 - (B) period
 - (C) comma
 - (D) colon
54. A variable used to store decimal numbers in a Pascal program is declared as
- (A) decimal
 - (B) floating point
 - (C) integer
 - (D) real
55. Which of the following is NOT a valid Pascal program name?
- (A) Pay|Cal
 - (B) Pay*Calculation
 - (C) Pay_Calculation
 - (D) P|Calculation
56. Which statements in Pascal can be used for generating the following output?
- ```
FIRST 15 20
```
- (A) `Readln (FIRST, 15, 20);`
  - (B) `Writeln (FIRST, 15, 20);`
  - (C) `Writeln ('FIRST 15 20');`
  - (D) `Writeln ("FIRST 15 20");`
57. The reserved word used in Pascal to display output and place the cursor on a new line is
- (A) Print
  - (B) Readln
  - (C) Write
  - (D) Writeln
58. The Pascal code to store 60 into the location 7 of the array MARKS is
- (A) `MARKS (7) := 60;`
  - (B) `MARKS [7] := 60;`
  - (C) `MARKS [7] = 60;`
  - (D) `60 := MARKS [7];`



Items 59 - 60 refer to the following Pascal program segment below.

```
Readln (A, B);
If (B > 0) then
Begin
 C := A/B;
 Writeln (C);
End
Else
 Writeln("Error");
End;
```

59. If 27 and 3 are entered into the program, the result would be

- (A) 3
- (B) 9
- (C) 27/3
- (D) An error

60. If the data assigned to the variables A and B are 6 and 0 respectively, upon execution, there will be a

- (A) logical error
- (B) result of 0
- (C) runtime error
- (D) syntax error