

1. Which of the following are considered computer hardware?
- (A) Data
 - (B) Programs
 - (C) Operating systems
 - (D) Output devices
2. 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
3. A diskette is divided into a number of concentric circles called
- (A) sectors
 - (B) cylinders
 - (C) tracks
 - (D) clusters
4. The storage capacity of a floppy disk is
- (A) 1.44 MB
 - (B) 1.44 GB
 - (C) 1440 KB
 - (D) 1440 MB
5. 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
6. Which of the following is a type of user interface?
- (A) IDE
 - (B) MIDI
 - (C) ASCII
 - (D) GUI
7. Which of the following is used by the CPU to temporarily store data?
- (A) Buffer
 - (B) Track
 - (C) Sector
 - (D) Cylinder
8. Encryption is used to
- (A) disguise data and programs
 - (B) commit computer crime
 - (C) discard old equipment
 - (D) physically prevent users from accessing a computer
9. In modern personal computers, the CPU speed is measured in
- (A) nanoseconds
 - (B) milliseconds
 - (C) MHz
 - (D) GHz
10. Google Chrome is an example of
- (A) the Internet Explorer
 - (B) a web browser
 - (C) a search engine
 - (D) the World Wide Web

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

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

$$\begin{array}{r|l} 2 & 8 \\ \hline & 4 \\ 2 & 2 \\ \hline & 1 \end{array}$$

16. In the URL <http://www.shoes.com>, 'shoes.com' stands for the

- (A) extension
- (B) company name
- (C) domain name
- (D) Internet company

12. Which of the following is considered a feature of a biometric system?

- (A) Diagnoses medical symptoms.
- (B) Matches fingerprints.
- (C) Detects irregular heartbeats.
- (D) Helps to lubricate skeletal joints.

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

- (A) Microfilm
- (B) Plotter
- (C) Printer
- (D) Visual Display Unit (VDU)

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

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

18. A document used for the initial recording of data relating to business transactions is called a

- (A) turnaround document
- (B) source document
- (C) primary document
- (D) main document

14. The MAIN function of a firewall is that it

- (A) is used by hackers to prevent detection
- (B) protects computer files
- (C) prevents unauthorized access to a computer on a network
- (D) protects a stand-alone computer from viruses

19. Transferring data from a remote computer to your computer is referred to as

- (A) uploading
- (B) browsing
- (C) downloading
- (D) data mining

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

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
22. Which of the following statements is NOT true of secondary storage media?
- (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 the user to talk internationally?
- (A) FTP
 - (B) VoIP
 - (C) HTTP
 - (D) IP
24. What is the corresponding decimal value of 111 (base 2)?
- (A) 7
 - (B) 8
 - (C) 9
 - (D) 10
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. Which of the following is NOT an operating system?
- (A) MS Office
 - (B) Windows
 - (C) Mac OS
 - (D) Linux
28. The part of the central processing unit where simple calculations can take place is called the
- (A) CU
 - (B) ALU
 - (C) SU
 - (D) VDU
29. Data can be transmitted between devices and computers using a wireless radio technology known as
- (A) bluetooth
 - (B) hotspot
 - (C) microwave
 - (D) fibre optic
30. Which of the following limits network access between two or more networks?
- (A) A firewall
 - (B) Biometrics
 - (C) An encryption
 - (D) An anti-virus program

10110
00101

11011

31. Selecting or highlighting a paragraph creates a

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

32. To complete her word processing assignment, Susie must align the text to both the left and right margins. Which type of alignment must Susie select to achieve this?

- (A) Right
- (B) Left
- (C) Centre
- (D) Justified

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

- (A) Footers
- (B) Headers
- (C) Mail merge
- (D) Search and replace

34. In Microsoft PowerPoint, a single page shown on a screen to display information is called a

- (A) slide
- (B) table
- (C) field
- (D) presentation

35. A2 is formatted as A² using

- (A) strikethrough
- (B) subscript
- (C) superscript
- (D) small caps

36. Which type of chart is NOT suitable for representing data over two years as shown in the table below?

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

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

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


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

38. Information produced from queries and tables in a specific format that can be printed from a database is called

- (A) a file
- (B) a report
- (C) a binary
- (D) an object

39. Slides can be arranged using

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

40. The  icon in a presentation is used for

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

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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. 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

43. Which of the following is normally used for website-to-website connection?

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

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

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

45. Which of the following data types CANNOT be entered into a database table?

- (A) Number
- (B) Text
- (C) Yes/no
- (D) Array

46. Consider the following algorithm.

$a = 7$
 $b = 9$
 $a = b - a$ $9 - 7 = 2$
 $b = a + b$ $2 + 9 = 11$
Write a, b

The output of this algorithm is

- (A) 2, 9
- (B) 2, 11
- (C) 7, 9
- (D) 7, 11

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

49. You are given the problem of finding the sum of THREE numbers, and you use an IPO chart to decompose the problem.

What is the correct order of the statements to be placed into the input, processing and output columns?

- (A) Add the three numbers together/
number 1, number 2, number 3/
Total
- (B) Total/number 1, number 2, number
3/add the three numbers together
- (C) Number 1, number 2, number 3/
Total/add the three numbers
together
- (D) Number 1, number 2, number 3/
add the three numbers together
/Total

The integer variables a, b and c, are given the values 6, 10 and 2 respectively. What is the result of the expression a MULT (b DIV c)?

- (A) 0
- (B) 20
- (C) 30
- (D) 120

$10/2 = 5$ $6 \times 5 = 30$

The original code written by the programmer is termed

- (A) object code
- (B) source code
- (C) machine code
- (D) symbolic code

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

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

53. The LAST step in solving a problem is to

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

54. The Pascal code var x, y would generate an error. The term used to describe this type of error is

- (A) syntax
- (B) logical
- (C) execution
- (D) run-time

var x, y; data;

Item 55 refers to the following pseudocode.

```

5 2
Read A, B
If A < 2
  C ← 2.
Else
  C ← 6.
End if
D ← C*B+2
Write D

```

Boards

$(6 \times 2) + 2$

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 NOT a third-generation language?

- (A) Assembly
- (B) COBOL
- (C) C
- (D) Pascal

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

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

- (A) =
- (B) □
- (C) ==
- (D) :=

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.