

CIT-001

CERTIFICATE IN INFORMATION TECHNOLOGY (CITOL)
FUNDAMENTALS OF COMPUTER SYSTEMS

Time : $1\frac{1}{2}$ Hours

Maximum Marks : 50

Note : i) There are 50 multiple choice questions in this paper.

ii) All questions are compulsory.

iii) Each question carries 1 mark.

1. Which of the following is a non-volatile memory?

- A) Secondary memory
- B) Cache memory
- C) Register
- D) Main memory

2. Computer display screen is a/an

- A) Input device
- B) Output device
- C) Storage device
- D) Printing device

3. Without an input device, a computer will not be able to

- A) Display data
- B) Process data
- C) Get data from user
- D) Store data

4. Which secondary memory device has optical storage mechanism?

- A) Hard Disk
- B) Floppy Disk
- C) CD-ROM
- D) USB Flash Memory

5. RAM is memory.

- A) Volatile
- B) Secondary
- C) Magnetic tape
- D) None of the above

6. 1 MB is equal to

- A) 2^{10} bytes
- B) 2^{20} bytes
- C) 20^{15} bytes
- D) 2^4 bytes

7. Total access time of a disk is equal to

- A) Seek Time \times Latency Time
- B) Seek Time – Latency Time
- C) Seek Time + Latency Time
- D) Seek Time/Latency Time

8. Which of the following is the incorrect statement regarding primary memory?

- A) Primary memory is used for permanent storage.
- B) Primary memory is faster than secondary memory.
- C) Primary memory is a static device.
- D) Primary memory consumes less power.

9. What does GUI stand for?

- A) General User Interface
- B) Graphical User Internet
- C) General User Instruction
- D) Graphical User Interface

10. What is the base value of a hexadecimal number system?

- A) 4
- B) 16
- C) 8
- D) 10

11. Which of the following is a utility software?

- A) Operating System
- B) Power Point
- C) Online Banking Software
- D) Antivirus Software

12. Which of the following is an output device?

- A) Mouse
- B) Microphone
- C) Bar Code Reader
- D) Plotter

13. Which of the following is incorrect for DBMS?

- A) Provide Data Integrity
- B) Provide Data Consistency
- C) Maximize Data Redundancy
- D) Provide Data Sharing

14. Which of the following is not a system software?

- A) Operating system
- B) MS-Word
- C) Compiler
- D) Interpreter

15. E-R model is used to represent relationships between different of a system.

- A) Attributes
- B) Entities
- C) Datasets
- D) All of the above

16. Delay between job-submission and job-completion is called

- A) Compilation Time
- B) Execution Time
- C) Turnaround Time
- D) Waiting Time

17. Which of the following is not an input device?

- A) Mouse
- B) Printer
- C) Keyboard
- D) Microphone

18. The key of a table which is used for referencing the other table is known as

- A) Super key
- B) Primary key
- C) Foreign key
- D) Candidate key

19. Which of the following is not a part of CPU?

- A) CU
- B) ALU
- C) Main memory
- D) Registers

20. A file in which the data is updated after every data manipulation operation is called

- A) Master File
- B) Work File
- C) Transaction File
- D) Database File

21. An array is a/an data type.

- A) Primary
- B) User defined
- C) Complex
- D) None of the above

22. Which of the following is a characteristic of an algorithm?

- A) It must terminate after a finite number of steps.
- B) It may have some ambiguity.
- C) No need of any input.
- D) No output is expected from an algorithm.

23. Which of the following is not a keyword in C language?

- A) if
- B) float
- C) scanf
- D) while

24. Which of the following is a limitation of using flow-chart?

- A) Communicates effectively
- B) Help in development of program
- C) Changes in logic are not permitted
- D) Making flowchart is simple

25. Infrared signals range between
- A) 300 Giga Hz—400 Tera Hz
 - B) 300 Mega Hz—400 Giga Hz
 - C) 300 Mega Hz—400 Tera Hz
 - D) 30 Mega Hz—40 Mega Hz
26. An effective network security strategy requires identification of
- A) Threats and risk only
 - B) Risk and vulnerabilities only
 - C) Vulnerabilities only
 - D) Threat, risk and vulnerabilities
27. Which of these is not a keyword in C programming?
- A) for
 - B) double
 - C) array
 - D) switch
28. Which of the following is not a mode of transmission?
- A) Simplex mode
 - B) Half-Duplex mode
 - C) Full-Duplex mode
 - D) Mix mode
29. Which of the loop instructions would be used for the situation where the number of iterations of the loop is known before the loop is started ?
- A) do---while
 - B) while
 - C) for
 - D) nested-if

30. The OSI model comprises of layers.

- A) Two
- B) Four
- C) Eight
- D) Seven

31. Network Interface Card (NIC) provides:

- A) Boosting of network signal
- B) Connection between LAN
- C) Physical connection between the network and computer
- D) Connection between twisted pair and optic fiber

32. is an input device that optically 'reads' an image and converts it into a digital signal.

- A) Printer
- B) Mouse
- C) Keyboard
- D) Scanner

33. Walkie-Talkie is an example of

- A) Simplex Communication
- B) Full-Duplex Communication
- C) Half-Duplex Communication
- D) Mixed Communication

34. Which of the following is not a type of computer virus?

- A) Boot infector
- B) System infector
- C) Raindrops
- D) Boot sector

35. Which device boost's a network's signal as it passes through it?

- A) Repeater
- B) Network Interface Card
- C) Bridge
- D) Hub

36. Which network covers the geographic area of the size of an entire city?

- A) LAN
- B) MAN
- C) PAN
- D) WAN

37. Following are two statements regarding modems:

X: An internal modem is plugged into an expansion slot inside your PC.

Y: An external modem has control and status-lights that can be used to monitor the transmission.

- A) Both X and Y are true.
- B) Both X and Y are false.
- C) X is true, Y is false.
- D) X is false, Y is true.

38. Which of the following refers to physical connection between nodes and network?

- A) Transmission mode
- B) Topology
- C) Encoding
- D) Circuit Switching

39. Fiber Distributed Data Interface (FDDI) is an example of
- A) Bus topology
 - B) Tree topology
 - C) Star topology
 - D) Ring topology
40. In the context of computer networks, a bridge understands the address.
- A) Application Layer
 - B) Data Link Layer
 - C) Network Layer
 - D) Transport Layer
41. Network architecture in which various computers on the network can act both as client and server is called as
- A) Client-Server based network
 - B) Peer-to-peer network
 - C) Bus network
 - D) Telephone network
42. An attribute whose value can be calculated from another attribute is known as
- A) Key attribute
 - B) Multivalued attribute
 - C) Derived attribute
 - D) Cardinality
43. Which component of information security deals with correctness of information?
- A) Integrity
 - B) Confidentiality
 - C) Availability
 - D) Privacy

44. In information security CIA refers to
- A) Connectivity, Information and Affordability
 - B) Confidentiality, Integrity and Availability
 - C) Confidentiality, Intensity and Affordability
 - D) Correctness, Integrity and Availability
45. A system infected by Boot Infector will have the virus residing in
- A) The programs that starts the execution of OS files
 - B) A program file
 - C) An executable program
 - D) A non-executable program
46. Information security is not concerned with
- A) Confidentiality
 - B) Availability
 - C) Integrity
 - D) Affordability
47. Denial-of-Service (DoS) attack
- A) Send large volume of traffic to a critical network element
 - B) Alters the data packets being transmitted
 - C) Send sensitive information from inside your organization
 - D) Execute program files
48. Which of the following does not belong to virus category?
- A) Boot infectors
 - B) System infectors
 - C) General executable program infectors
 - D) Specialized executable program infectors

49. is associated with the comparison of processing speed of different computer systems.

- A) MIPS
- B) CPS
- C) EFTS
- D) EOF

50. Which symbol represents the processing in the flow- chart?

- A) Rhombus
- B) Rectangle
- C) Ellipse
- D) Circle