

CLUSTER UNIVERSITY SRINAGAR

University Entrance Examination Time: 1 HOUR

Integrated Computer Applications (50 x 1= 50 MARKS) Time One Hour

Note: Each wrong answer will lead to the deduction of 0.25 marks from the total score of the candidate.

1. Which of the following is an input device?
 - A. Printer
 - B. Monitor
 - C. Keyboard
 - D. Projector
2. Which of these is not an example of computer hardware?
 - A. video card
 - B. mouse
 - C. CD-ROM drive
 - D. Windows
3. Chief component of first generation computer was
 - A. Transistors
 - B. Vacuum Tubes and Valves
 - C. Integrated Circuits
 - D. None of above
4. The first programmable computers were programmed using
 - A. Assembly Language
 - B. Machine Language
 - C. Source Code
 - D. Object Code
5. One KB is equal to
 - A. 1024 bits.
 - B. 1024 bytes.
 - C. 512 bits.
 - D. 512 bytes.
6. Which of the following is not an operating system?
 - A. UNIX
 - B. Linux
 - C. Windows
 - D. DBMS
7. Hard Disk is a:
 - A. Primary Storage
 - B. Secondary storage
 - C. Both A and B
 - D. None of the above

8. MS WORD is:
- A. System software
 - B. Real time software
 - C. Application software
 - D. None of the above
9. Which of the following is a part of the Central Processing Unit?
- A. Printer
 - B. Key board
 - C. Mouse
 - D. Arithmetic & Logic unit
10. An operating system is:
- A. Integrated software
 - B. CD-ROM software
 - C. Application software
 - D. System software
11. C++ was originally developed by:
- A. Clocksin and Melish
 - B. Donald E.Knuth
 - C. Sir Richard Hadlee
 - D. Bjarne Stroustrup
12. The operator << is called:
- A. Insertion Operator
 - B. Extraction operator
 - C. Get From Operator
 - D. None of the above
13. C++ is:
- A. Procedure Oriented Language
 - B. Object Oriented Language
 - C. Both A and B
 - D. None of the above
14. Which one is not a correct variable type in C++:
- A. int
 - B. float
 - C. real
 - D. double
15. The header file iostream includes:
- A. The declarations of basic standard input-output library
 - B. The declarations of basic math functions
 - C. The declarations of basic string functions
 - D. None of the above

16. Which of the following is not a Bitwise operator:
- A. `||`
 - B. `<<`
 - C. `~`
 - D. `^`
17. Break statement is used to:
- A. Terminate a case in switch statement
 - B. To force immediate termination of a loop
 - C. Both A and B
 - D. None of the above
18. Array elements are stored in _____ Memory Locations:
- A. Non contiguous
 - B. Contiguous
 - C. Random
 - D. None of the above
19. Which of the following is correct declaration for an array in C++:
- A. `int ar{10};`
 - B. `int ar(10);`
 - C. `int ar[10];`
 - D. `int ar;`
20. The default parameter passing mechanism in c++ is:
- A. Call by value
 - B. Call by reference
 - C. Call by value result
 - D. None of the above
21. Which of the following is a user defined data types:
- A. string
 - B. array
 - C. structure
 - D. All of the above
22. An array is a:
- A. Collection of elements having same data type
 - B. Collection of elements having different data type
 - C. Collection of elements having same or different data type
 - D. None of the above
23. Which operator is used to access members of a structure variable:
- A. `::` (scope resolution operator)
 - B. `.` (Dot operator)
 - C. `&` (AND operator)
 - D. None of the above

24. strcat() is a:
- A. Keyword that concatenates two strings
 - B. Function that copies one string into another
 - C. Keyword that copies one string into another
 - D. Function that concatenates two strings
25. int marks[5][3] is a :
- A. 1-D Array
 - B. 2-D Array
 - C. 3-D Array
 - D. 4-D Array
26. Set of SQL commands used to manipulate database structure is called
- A. Data Definition Language(DDL)
 - B. Data Manipulation Language(DML)
 - C. Both A and B
 - D. None of the above
27. Which of the following is an aggregate SQL function?
- A. LEFT
 - B. AVG
 - C. JOIN
 - D. LEN
28. The database schema is written in
- A. HLL
 - B. DML
 - C. DCL
 - D. DDL
29. A data manipulation command that combines the records from one or more tables is called
- A. SELECT
 - B. PROJECT
 - C. JOIN
 - D. PRODUCT
30. Which database level is closest to the users?
- A. Internal
 - B. External
 - C. Conceptual
 - D. Physical
31. Which of the following is a correct format of Email address?
- A. name@website@info
 - B. name@website.info
 - C. www.nameofebsite.com
 - D. name.website.com
32. HTML is used to create
- A. machine language program
 - B. high level program
 - C. web pages
 - D. web server

33. WWW stands for
- A. World Wide Web
 - B. World Wide Wildlife
 - C. World Wide Website
 - D. World Wide Webserver
34. The client program used to send requests to a web server :
- A. HTML
 - B. Browser
 - C. Web Server
 - D. FTP
35. Which of the following is not a type of computer network?
- A. Local Area Network (LAN)
 - B. Personal Area Network (PAN)
 - C. Remote Area Network (RAN)
 - D. Wide Area Network (WAN)
36. medium provides a physical conduit from one device to another.
- A. unguided
 - B. guided
 - C. either (a) or (b)
 - D. none of the above
37. Which data structures allows deleting data elements from one end and inserting at other end?
- A. Stacks
 - B. Queues
 - C. Dequeues
 - D. Binary search tree
38. Which of the following data structure can't store the non-homogeneous data elements?
- A. Arrays
 - B. Records
 - C. Pointers
 - D. Stacks
39. Which of the following is a non-linear data structure?
- A. Stack
 - B. List
 - C. String
 - D. Tree
40. In doubly linked lists, traversal can be performed?
- A. Only in forward direction
 - B. Only in reverse direction
 - C. In both directions
 - D. None
41. A linked list in which none of the nodes contains a NULL pointer.
- A. Singly linked list
 - B. Doubly linked list
 - C. Circular linked list
 - D. None
42. Which data structure is used for implementing recursion?
- A. Queue
 - B. Stack
 - C. Array
 - D. List

43. When an object is associated to its function call at compile time, it is calledbinding.
- A. Late
 - B. Static
 - C. Dynamic
 - D. Fixed

44. Which of the following is not a file opening mode?
- A. ios::app
 - B. ios::ate
 - C. ios::get
 - D. ios::trunk

45. What will be the result of this code?

```
int a = 100, b = 200;
int *p = &a, *q = &b;

p = q;
```

- A. b is assigned to a
 - B. p now points to b
 - C. a is assigned to b
 - D. q now points to a
46. The keywords private and public used in C++ are known as
- A. keyword labels
 - B. visibility labels
 - C. declaration labels
 - D. display labels
47. Static variables are associated with the class itself rather than with any object of the class, hence, they are also known as
- A. class level variables
 - B. object level variables
 - C. function level variables
 - D. internal level variables
48. Which of the following C++ operators can be overloaded.
- A. Arithmetic operator (+, -, *, /)
 - B. Class Member Access Operators (., .*)
 - C. Size operator(size of)
 - D. Conditional operator (?:)
49. Which of the following must be either a non-static member function or a friend function.
- A. member function
 - B. Operator function
 - C. non-static function
 - D. friend functions
50. Which stream class object is required to write data to a file?
- A. of stream
 - B. if stream
 - C. f stream
 - D. ostream