Q. No. 1. Which one of the following format specifier is used to print unsigned integer?

A: %ui
B: %u
C: %un
D: %iu

A B C D Clear Answer Mark For Review

Q. No. 2. What is the use of continue statement?

A: breaks from loop
B: breaks from switch statement
C: Continues with next iteration of a loop
D: Continues with statement after loop

A B C D Clear Answer Mark For Review

Q. No. 3. What is the output of the following C code snippet?

```
char *ptr;
char str[]="Hello";
ptr=str; str++;
printf("%c",ptr);
```

A: I
B: Compilation Error
C: H
D: E

A B C D Clear Answer Mark For Review

Q. No. 4. What is the output of the following C code snippet?

```
int a=8,b=2;
printf("%d\n",a<<b);
```

A: 32
B: 16
C: 4
D: 2

A B C D Clear Answer Mark For Review

Q. No. 5. What is the output of the following C code snippet?

```
int a[2][3]={{1},{2,1}};
printf("%d\n",a[0][1]);
```

A: 1
B: 0
C: 2
D: Garbage value

○A ○B ○C ○D Clear Answer Mark For Review

Q. No. 6. What is the output of the following C code snippet?

```
int a;
a='d'-'a';
printf("%d\n",a);
```

A: 3
B: 100;
C: 97
D: Compilation error

◉A ○B ○C ○D Clear Answer Mark For Review

Q. No. 7. Which symbol is used as a statement terminator in C?

A: !
B: #
C: ~
D: ;

○A ○B ○C ◉D Clear Answer Mark For Review

Q. No. 8. What is the default return type of a C function?

A: void
B: int
C: float
D: char

○A ◉B ○C ○D Clear Answer Mark For Review

Q. No. 9. In C language, continue statement cannot be used with_____.

A: for
B: while
C: do while
D: switch

A B C D Clear Answer Mark For Review

Q. No. 10. Size of union in C language is_____.

A: Combined size of all fields
B: Size of smallest field
C: Size of largest field
D: Decided at runtime

A B C D Clear Answer Mark For Review

Q. No. 11. What is the output of the following C program snippet?

```
int i=0x10+010+10;
printf("%d\n",i);
```

A: 30
B: 2010
C: 21
D: 34

A B C D Clear Answer Mark For Review

Q. No. 12. Which one the following is false w.r.t memory layout of C program?

A: Stack and Heap grow in opposite directions
B: Heap is used for dynamic memory allocation
C: Code segment contains executable instructions
D: Data segment contains function call activation details

A B C D Clear Answer Mark For Review

Q. No. 13. Which one of the following is false w.r.t to printing % using printf in C language?

A: printf("%%");
B: printf("%");
C: printf("%c",'%');
D: printf("%s","%");

A B C D Clear Answer Mark For Review

Q. No. 14. What is the output of the following C code snippet?

```
int main()
{
#define a 40
printf("%d", a+=2);
return(0);
}
```

a=a+2
↳ 2

A: 40
B: 42
C: 8
D: Compile time error

A B C D Clear Answer Mark For Review

Q. No. 15. If p is an instance of a structure. Fields of structure instance are accessed through p using _____ operator

A: &
B: .
C: ->
D: *

A B C D Clear Answer Mark For Review

Q. No. 16. Find the wrong statement?

A: Presumption for binary search is the sorted array
B: Insertion sort is best when few elements are out of its location
C: Merge sort time complexity is O(n log n)
D: There are 'n' swaps in Selection sort

A B C D Clear Answer Mark For Review

Q. No. 17. Pick up the wrong statement about heap sort

A: It is a full binary tree
B: It is best implemented using arrays than linked list
C: It follows order property
D: After building the heap, the largest element will be at the root

A B C D Clear Answer Mark For Review

Q. No. 18. Pick up the wrong statement about the height of a binary tree

A: Height of a null sub-tree or tree is '-1'
B: Height of any node is the longest path from the node to root
C: The height of a tree is the height of its root
D: Height of node is max(height of left sub-tree, height of right sub-tree)+1

A B C D Clear Answer Mark For Review

Q. No. 19. Which of the following function is used to delete an element from the Queue?

A: Enqueue
B: Pop
C: Dequeue
D: Push

A B C D Clear Answer Mark For Review

Q. No. 20. What is true about merge sort?

A: It is greedy algorithm
B: It requires two lists in sorted order
C: Time complexity is O(log n)
D: Worst case complexity is O(log n)

Q. No. 21. Access time of a binary search tree may go worse in terms of time complexity up to _____.

A: O(n2)
B: O(n log n)
C: O(n)
D: O(1)

A B C D Clear Answer Mark For Review

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Q. No. 22. Overflow condition for a circular queue of size 'n' with rear and front pointers is

A: rear == n-1 && front ==0
B: front != 0 && rear+1 == front
C: rear ==0 && front == 0
D: (rear+1)%size == front

Q. No. 23. When a try block contains code that might throw an exception, but no exception is thrown in a particular execution, then the program _____

A: terminates
B: issues a warning
C: continues with the code below catch blocks after executing code in try block
D: uses a default catch block

A B C D Clear Answer Mark For Review

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Q. No. 24. In which case, it is mandatory to provide a destructor in a class?

A: Almost in every class
B: Class for which two or more than two objects will be created
C: Class for which copy constructor is defined
D: Class whose object are created dynamically

A B C D Clear Answer Mark For Review

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Q. No. 25. Which one of the following C++ operators cannot be overloaded using friend function?

A: +=
B: <<
C: ->
D: -

A B C D Clear Answer Mark For Review

Q. No. 26. Virtual functions are used to achieve_____.

A: Overloading
B: Overriding
C: Runtime binding
D: Static binding

Q. No. 27. Which one of the following is not the property of constructor?

A: They should be declared in the public section
B: They can be overloaded
C: They can be virtual
D: They do not have return type

A B C D Clear Answer Mark For Review

Q. No. 28. Genericity feature is supported in C++ using

A: Inheritance
B: Encapsulation
C: Template functions and template classes
D: Abstraction

A B C D Clear Answer Mark For Review

Q. No. 29. To which type of a class, RTTI can be applied?

A: Encapsulation
B: Polymorphic
C: Derived
D: Base

A B C D Clear Answer Mark For Review

Q. No. 30. Assume a class XYZ with public static data member sdata. Xobj is an instance of XYZ, which of the following is correct way of accessing sdata?

A: XYZ.sdata
B: XYZ::sdata
C: Both B and D
D: Xobj.sdata

A B C D Clear Answer Mark For Review

Q. No. 31. Which of the following is false for cin?

A: It represents standard input device
B: It is an object of input stream class
C: Both A and B
D: It is a predefined function

A B C D Clear Answer Mark For Review

Q. No. 32. In FTP, the port ____ is used for the control connection and the port _____ for the data connection.

A: 21 ; 22
B: 21 ; 20
C: 20 ; 21
D: 22 ; 21

A B C D Clear Answer Mark For Review

Q. No. 33. The typical range of Ephemeral ports is _____.

A: 1 to 80
B: 1 to 1024
C: 80 to 1024
D: 1024 to 65535

A B C D Clear Answer Mark For Review

Q. No. 34. The services of _____ is used by DNS at well-known port 53

A: TCP
B: UDP
C: SCTP
D: TCP or UDP

A B C D Clear Answer Mark For Review

Q. No. 35. Which field determines the lifetime of IPv6 datagram?

A: Hop Limit
B: TTL
C: Next Header
D: Fragmentation

A B C D Clear Answer Mark For Review

Q. No. 36. _____ uses distance vector routing algorithm in Internet.

A: OSPF
B: ARP
C: RIP
D: RARP

A B C D Clear Answer Mark For Review

Q. No. 37. The _____ address must be referred to deliver a message to the correct application program running on a host

A: Port
B: IP
C: Physical
D: Logical

A B C D Clear Answer Mark For Review

Q. No. 38. _____ method is used by HTTP request line to request a document from the server.

A: GET
B: PUT
C: COPY
D: PUSH

A B C D Clear Answer Mark For Review

Q. No. 39. Short Message Service is a message consisting of a maximum of _____ alphanumeric characters

A: 100
B: 150
C: 160
D: 170

A B C D Clear Answer Mark For Review

Q. No. 40. A mobile station can communicate with two base stations at the same time in a _____ handoff.

A: Hard
B: Soft
C: Medium
D: Moderate

Q. No. 41. A BSS with an AP in Wireless LAN is called _____ architecture.

A: Ad-hoc architecture
B: Infrastructure
C: ESS
D: NAV

A B C D Clear Answer Mark For Review

Q. No. 42. Pick up the wrong statement about I/O devices

A: Each device controller is in charge of a particular device type
B: All device controller has one common local buffer
C: CPU moves data from/to main memory to/from local buffers
D: I/O devices and the CPU can execute concurrently

A B C D Clear Answer Mark For Review

Q. No. 43. If time quantum is very big in Round Robin CPU scheduling algorithm, then it acts as _____.

A: SJF Scheduling
B: FCFS Scheduling
C: Priority Scheduling
D: SJF with Preemption

A B C D Clear Answer Mark For Review

Q. No. 44. Physical memory is divided into fixed sized _____

A: Pages
B: Frames
C: Blocks
D: Chunks

A B C D Clear Answer Mark For Review

Q. No. 45. A file is a collection of _____.

A: Sectors
B: Blocks
C: Records
D: Tracks

A B C D Clear Answer Mark For Review

Q. No. 46. The interval from the time of submission to the time of completion is known as _____.

A: Throughput
B: Turnaround time
C: Waiting time
D: Response time

A B C D Clear Answer Mark For Review

Q. No. 47. Which of the following is not a optimization criteria for a scheduling algorithm?

A: Maximum throughput
B: Maximum turnaround time
C: Minimum waiting time
D: Minimum response time

1. CPU Utlization MAX: Range 0 to 100 %
2. Through put: MAX Process completed per unit time
3. Turn Around Time MIN: Time b/w Submission of process and time of Completion.
TAT= Execution time + Waiting time.
4. Waiting time MIN: Time spent by process in ready queue.
5 Response time MIN: Time for first response from CPU.

A B C D Clear Answer Mark For Review

Q. No. 48. When interrupt occurs, state of running process is changed to _____

A: Waiting state
B: Ready state
C: New state
D: It will not go anywhere

Q. No. 49. TLB stands for

A: translation look aside buffer
B: translation look ahead buffer
C: terminal large buffer
D: transfer large buffer

A B C D Clear Answer Mark For Review

Q. No. 50. I-node stands for _____

A: interface node
B: iterative node
C: index node
D: interconnection node

A B C D Clear Answer Mark For Review

http://www.youtube.com/OptimisiticEngineer