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MCQs in c language

b) Union

1. Which of the following language is the predecessor to C Programming Language?a) Ab) Bc) BCPLd) C++
Ans: c
2. C programming language was developed bya) Dennis Ritchieb) Ken Thompsonc) Bill Gatesd) Peter Norton
Ans: a
3. C was developed in the year a) 1970 b) 1972 c) 1976 d) 1980
Ans: b
4. C is a language a) High Level b) Low Level c) Middle Level d) Machine Level
Ans: c
5. C language is available for which of the following Operating Systems?a) DOSb) Windowsc) Unixd) All of these
Ans: d
6. Which of the following symbol is used to denote a pre-processor statement?a)!b) #c) ~d);
Ans: b
7. Which of the following is a Scalar Data type a) Float

c) Array d) Pointer
Ans: a
8. Which of the following are tokens in C? a) Keywords b) Variables
c) Constants
d) All of the above
Ans: d
9. What is the valid range of numbers for int type of data? a) 0 to 256 b) -32768 to +32767
c) -65536 to +65536
d) No specific range
Ans: b
10. Which symbol is used as a statement terminator in C?
a) !
b) #
c) ~
d);
Ans: d
11. Which escape character can be used to begin a new line in C?
a) \a
b) \b
c) \m
d) \n
Ans: d
12. Which escape character can be used to beep from speaker in C? a) \a
b) \b
c) \m d) \n
Ans: a
13. Character constants should be enclosed between a) Single quotes
b) Double quotes c) Both a and b
d) none of these
Ans: a
14. String constants should be enclosed between a) Single quotes b) Double quotes c) Both a and b d) None of these

Ans: b
15. Which of the following is invalid? a) " b) "" c) 'a' d) 'abc'Ans: d
16. The maximum length of a variable in C is a) 8 b) 16 c) 32 d) 64
Ans: a
17. What will be the maximum size of a float variable? a) 1 byte b) 2 bytes c) 4 bytes d) 8 bytes
Ans: c
18. What will be the maximum size of a double variable? a) 1 byte b) 4 bytes c) 8 bytes d) 16 bytes
Ans: c
19. A declaration float a,b; occupies of memory a) 1 byte b) 4 bytes c) 8 bytes d) 16 bytes
Ans: c
20. The size of a String variable isa) 1 byteb) 8 bytesc) 16 bytesd) None of these
Ans: d
21. Which of the following is an example of compounded assignment statement? a) a=5 b) a+=5 c) a=b=c d) a=b
Ans: b
22. The operator && is an example for operator. a) Assignment b) Increment

c) Logical d) Rational
Ans: c
23. The operator & is used for a) Bitwise AND b) Bitwise OR
c) Logical AND d) Logical OR
Ans: a
24. The operator / can be applied to a) integer values b) float values c) double values d) All of these
Ans: b
25. The equality operator is represented by a) := b) .EQ. c) = d) ==
Ans: d
26. Operators have hierarchy. It is useful to know which operator a) is most important b) is used first c) is faster d) operates on large numbers
, , , , , , , , , , , , , , , , , , ,
Ans: b
Ans: b 27. The bitwise AND operator is used for a) Masking b) Comparison c) Division
Ans: b 27. The bitwise AND operator is used for a) Masking b) Comparison c) Division d) Shifting bits
Ans: b 27. The bitwise AND operator is used for a) Masking b) Comparison c) Division d) Shifting bits Ans: a 28. The bitwise OR operator is used to a) set the desired bits to 1 b) set the desired bits to 0 c) divide numbers

- a) * b) == c) => d) +

Ans: d 30. The associativity of ! operator is a) Right to Left b) Left to Right c) (a) for Arithmetic and (b) for Relational d) (a) for Relational and (b) for Arithmetic Ans: a 31. Which operator has the lowest priority? a) ++ b) % c) + d) || Ans: d 32. Which operator has the highest priority? b) % c) + d) || Ans: a 33. Operators have precedence. Precedence determines which operator is a) faster b) takes less memory c) evaluated first d) takes no arguments Ans: c 34. Integer Division results in a) Rounding the fractional part b) Truncating the fractional part c) Floating value d) An Error is generated Ans: b 35. Which of the following is a ternary operator? a) ?: b) * c) sizeof d) ^ Ans: a 36. What will be the output of the expression 11 $^{\circ}$ 5? a) 5 b) 6 c) 11 d) None of these Ans: d 37. The type cast operator is a) (type)

b) cast()

c) (;;) d) // " " Ans: a 38. Explicit type conversion is known as a) Casting b) Conversion c) Disjunction d) Separation Ans: a 39. The operator + in a+=4 means a) a = a + 4b) a+4=a c) a=4 d) a=4+4 Ans: a 40. p++ executes faster than p+1 because a) p uses registers b) p++ is a single instruction c) ++ is faster than + d) None of these Ans: b 41. Which of the following statements is true? a) C Library functions provide I/O facilities b) C inherent I/O facilities c) C doesn't have I/O facilities d) Both (a) and (c) Ans: a 42. Header files in C contain a) Compiler commands b) Library functions c) Header information of C programs d) Operators for files Ans: b 43. Which pair of functions below are used for single character I/O. a) Getchar() and putchar() b) Scanf() and printf() c) Input() and output() d) None of these Ans: a 44. The printf() function retunes which value when an error occurs? a) Positive value b) Zero c) Negative value d) None of these

Ans: c

45. Identify the wrong statement

a) putchar(65)

b) putchar('x') c) putchar("x") d) putchar('\n')
Ans: c
46. Which of the following is charecter oriented console I/O function? a) getchar() and putchar() b) gets() and puts()
c) scanf() and printf() d) fgets() and fputs()
Ans: a
47. The output of printf("%u", -1) is a) -1 b) minimum int value c) maxium int value d) Error message
Ans: c
48. An Ampersand before the name of a variable denotes a) Actual Value b) Variable Name c) Address d) Data Type
Ans: c
49. Symbolic constants can be defined usinga) # defineb) constc) symbolsd) None of these
Ans: b
50. Null character is represented by a) \n b) \0 c) \0 d) \e

Ans: b

MULTIPLE CHOICE QUESTIONS OF C++

1. The Packing of	into single component is know as encapsulation.	
A. data		
B. function		
C. data and functions		
D. none		
Answer: Option C		
2. Which of the following	converts bool values to text(" true or false")?	
A.ios:: boolalpha		
B.ios:: showpos		
C.ios:: stdio		
D.none		
Answer: Option A		
	skip white space on input?	
A.ios:: boolalpha		
B.ios:: showpos		
C.ios:: skipus		
D.none		
Answer: Option C		
	omits white space on input?	
A.skipws		
B.noskipws		
C.ios:: skipus		
D. none		
Answer: Option A		
5. The void type is also cal	lled as ————?	
A. null datatype		
B. empty datatype		
C. zero datatype		
D. none		
Answer: Option B		
6. The keywords signed, u	insigned, short and long are called———-?	
A.Type modifiers		
B. type casting		
C.type conversion		
D. none		
Answer:OptionA		
7. The values of variables	are to be converted from one type to another type is called	
A. Type modifiers	·-	
B. type casting		
C.type conversion		
D. none		
Answer:Option B		
8. The operator ::* is calle		
A.pointer to member decele	erator	
B.insertion operator		

C.extraction operator D.none
Answer:Option A
9. The operator ->* is called? A. deference pointers to pointers to class members B.insertion operator C.extraction operator D.none
Answer: Option A
10. The operator .* is called? A.deference pointers to class members B.insertion operator C. extraction operator D.none
Answer: Option A
11. The operator "," is used to? A .equal to B. Evaluate C.shift left D. none
Answer:Option B
12. The new, operator, inline, friend are called? A. keywords B. operator C.method D. functions
Answer: Option A
13. The asm, catch, class are called? A.keywords B.operator C.method D. functions Answer:Option A
14loop will be executed at least once even if the condition is false initially A.do-while B.while C.for D.none
Answer:Option A
15. This statement passes control anywhere in the program without least care for any condition is called statement? A.goto B.jump C. break D.none
Answer:Option A
16. Thekeyword makes variable value stable. A.const B.constant

C.temp D.none
Answer: Option A 17. When a function is declared as, the compiler copies the code of the function in the calling function that is function body is inserted in place of function call during compilation. A.inline B.outline C. function overloading D.none
Answer: Option A
18. Defining multiple functions with same names is known as A.function overloading B.function polymorphism C.function overriding D.both a & b
Answer: Option D
19. The functions ceil and ceill round up the given number. A. float B. char C. double D. none
Answer: Option A
20. Inline mechanisms increases execution performance in terms of A. speed B. memory C. accuracy D. none
Answer: Option A
21. Which of the following statement is incorrect? A. Friend keyword can be used in the class to allow access to another class. B. Friend keyword can be used for a function in the public section of a class. C. Friend keyword can be used for a function in the private section of a class. D. Friend keyword can be used on <i>main()</i> . Answer: Option D
22. Which of the following statement is correct regarding destructor of base class?A. Destructor of base class should always be static.B. Destructor of base class should always be virtual.C. Destructor of base class should not be virtual.D. Destructor of base class should always be private.
Answer: Option B
23. Which of the following two entities (reading from Left to Right) can be connected by the dot operator?A. A class member and a class object.B. A class object and a class.C. A class and a member of that class.D. A class object and a member of that class.
Answer: Option D

24. How can we make a class abstract?A. By making all member functions constant.B. By making at least one member function as pure virtual function.

- C. By declaring it abstract using the static keyword.
- D. By declaring it abstract using virtual keyword.

Answer: Option B

25. Which of the following statement is correct when a class is inherited publicly?

- A. Public members of the base class become protected members of derived class.
- B. Public members of the base class become private members of derived class.
- C. Private members of the base class become protected members of derived class.
- D. Public members of the base class become public members of derived class.

Answer: Option D

26. Which of the following statement is correct about the constructors and destructors?

- A. Destructors can take arguments but constructors can not.
- B. Constructors can take arguments but destructors can not
- C. Destructors can be overloaded but constructors can not be overloaded.
- D. Constructors and destructors can both return a value.

Answer: Option B

27. Which of these access specifiers is used in class definition by default?

- A. Protected
- B. Public
- C. Private
- D. Friend

Answer: Option C

28. Which of the following statement is correct with regard to the use of keyword friend inside a class?

- A. A private member can be declared as a friend.
- B. A class may be declared as a friend.
- C. An object may be declared as a friend.
- D. We can use friend keyword as a class name.

Answer: Option B

29. Which of these keywords is used to control access to a class member?

- A. Default
- B. Break
- C. Protected
- D. Asm

Answer: Option C

30. Which of the following can access private data members or member functions of a class?

- A. Any function in the program.
- B. All global functions in the program.
- C. Any member function of that class.
- D. Only public member functions of that class.

Answer: Option C

31. Which of the following type of data member can be shared by all instances of its class?

- A. Public
- B. Inherited
- C. Static
- D. Friend

Answer: Option C

32. What is also termed as an instance of a class?

- A. Friend Function
- B. Object

C. Member Function D. Member Variables
Answer: Option B
33. Constructor is executed when A. an object is created B. an object is used C. a class is declared D. an object goes out of scope.
Answer: Option A
34. Which of these statements is true about virtual base classes?A. It is used to provide multiple inheritance.B. It is used to avoid multiple copies of base class in derived class.C. It is used to allow multiple copies of base class in a derived class.D. It allows private members of the base class to be inherited in the derived class.
Answer: Option B
35 can have default and can be overloaded. A. constructor B. destructor C. Friend Function D. None
Answer: Option A
36. Destructor can be but constructors can not. A. Virtual B. Friend C. Inline D. None
Answer: Option A
37. Constructor is arguments are called A. Parametrized constructor B. default constructor C. Zero- constructor D. None
Answer: Option A
38. The opearator ++,- and - are called operators. A. unary B. binary C. arithmetic D. none
Answer: Option A
39. Overloading with a parameter is called binary operator overloading. A. single B. double C. three D. none
Answer: Option A
40. ?:,::,sizeof(),"." Are called as operators. A. overloadable B. non-overloadable

C. default D. none
Answer: Option B
41. (),= Are called non-overloadable with function. A. friend B. inline C. default D. none
Answer: Option A
42. The procedure of creating a new class from one or more existing classes is termed as A. Inheritance B. Polymorphism C. Encapsulation D. None
Answer: Option A
43. The combination of one or more types of inheritance A. Hybrid B. multipath C. multilevel D. none
Answer: Option A
44. To overcome the ambiguity occurred due to multipath inheritance, c++ provides the keyword A. Virtual B. friend C. default D. none
Answer: Option A
45. A is a memory variable that stores memory address. A. pointer B. array C. inheritance D. none
Answer: Option A
46. The operator(*) is called as deference operator. A. indirection B. direction C. bidirection D. none
Answer: Option A
47. When a pointer points to an unallocated memory location or to data value whose memory is deallocated, such a pointer is called pointer . A. arithmetic B. logic C. wild D. none
Answer: Option C
48 is a collection of elements of similar data types in which each element is unique and located in separate memory location.

B. array C. attributes D. none	4: D
Answer: Op	
	operator not only creates an object but also allocates memory.
A. new B. old	
C. delete	
D. none	
A. new B. delete C. old D. none	_ operator not only destroys object but also releases allocated memory
Answer: Op	tion B
_	

Data Structure MCQ

ט	ala	Structure MCQ			
1)	1) How can we describe an array in the best possible way?				
a.		The Array shows a hierarchical structure.			
	b.	Arrays are immutable.			
	c.	Container that stores the elements of similar types			
	d.	The Array is not a data structure			
Answer :c					
2)	Which	of the following is the correct way of declaring an array?			
a.		int javatpoint[10];			
	b.	int javatpoint;			
	c.	javatpoint{20};			
	d.	array javatpoint[10];			
Aı	nswe	PT :A			
3)	How o	an we initialize an array in C language?			
a.		int arr[2]=(10, 20)			
	b.	int $arr(2)=\{10, 20\}$			
	c.	int $arr[2] = \{10, 20\}$			
	d.	int $arr(2) = (10, 20)$			
Aı	nswe	er:C			
4)	Which	of the following is the advantage of the array data structure?			
a.		Elements of mixed data types can be stored.			
	b.	Easier to access the elements in an array			
	c.	Index of the first element starts from 1.			
	d.	Elements of an array cannot be sorted			
Aı	nswe	PT :B			
5)	Which	of the following highly uses the concept of an array?			
a.		Binary Search tree			
	b.	Caching			
	c.	Spatial locality			
	d.	Scheduling of Processes			
Aı	nswe	₽Γ:B			

6) Which of the following is the disadvantage of the array?

- a. Stack and Queue data structures can be implemented through an array.
 - b. Index of the first element in an array can be negative
 - c. Wastage of memory if the elements inserted in an array are lesser than the allocated size
 - d. Elements can be accessed sequentially.

Answer :c

7) What is the output of the below code?

```
#include <stdio.h>
2.
    int main()
3.
4.
      int arr[5]={10,20,30,40,50};
5.
      printf("%d", arr[5]);
6.
7.
       return 0;
8. }
         a. Garbage value
         b.
              10
         c.
              50
         d. None of the above
```

Answer: A

- 8) Which one of the following is the size of int arr[9] assuming that int is of 4 bytes?
- a. 9
 - b. 36
 - c. 35
 - d. None of the above

Answer:B

- 9) Which one of the following is the process of inserting an element in the stack?
- a. Insert
 - b. Add
 - c. Push
 - d. None of the above

Answer:C

- 10) When the user tries to delete the element from the empty stack then the condition is said to be a _____
- a. Underflow
 - b. Garbage collection
 - c. Overflow
 - d. None of the above

$Answer: {\tt c}$

11) If the size of the stack is 10 and we try to add the 11th element in the stack then the condition is known as
a. Underflow
b. Garbage collection
c. Overflow
d. None of the above
Answer :c
12) Which one of the following is not the application of the stack data structure
a. String reversal
b. Recursion
c. Backtracking
d. Asynchronous data transfer
Answer :D
13) Which data structure is mainly used for implementing the recursive algorithm?a. Queue
b. Stack
c. Binary tree
d. Linked list
Answer :D
14) Which data structure is required to convert the infix to prefix notation?
a. Stack
b. Linked list
c. Binary tree
d. Queue
Answer:A
15) Which of the following is the infix expression?
a. A+B*C
b. +A*BC
c. ABC+*
d. None of the above
Answer :A

16)	Whic	ch of the following is the prefix form of A+B*C?	
a.		A+(BC*)	
	b.	+AB*C	
	c.	ABC+*	
	d.	+A*BC	
Aı	ıswe	er:D	
17)	Whic	ch of the following is not the correct statement for a stack data structure?	
a.		Arrays can be used to implement the stack	
	b.	Stack follows FIFO	
	c.	Elements are stored in a sequential manner	
	d.	Top of the stack contains the last inserted element	
Aı	iswe	er :в	
18)	If the	e elements '1', '2', '3' and '4' are added in a stack, so what would be the order for the removal?	
a.		1234	
	b.	2134	
	c.	4321	
	d.	None of the above	
Aı	ıswe	er :c	
19)	Wha	t is the outcome of the prefix expression +, -, *, 3, 2, /, 8, 4, 1?	
a.		12	
	b.	11	
	c.	5	
	d.	4	
۸.	• O***		
—	iswe		
20)	The	minimum number of stacks required to implement a stack is	
a.		1	
	b.	3	
	c.	2	
	d.	5	
Answer :c			
21)	Whic	ch one of the following node is considered the top of the stack if the stack is implemented using the linked list?	
a.		First node	

b. Second node

- c. Last node
- d. None of the above

Answer:A

22) Consider the following stack implemented using stack.

```
    #define SIZE 11
    struct STACK
    {
    int arr[SIZE];
    int top=-1;
    }
```

What would be the maximum value of the top that does not cause the overflow of the stack?

- a. 8
 - b. 9
 - c. 11
 - d. 10

Answer :D

- 23) What is another name for the circular queue among the following options?
- a. Square buffer
 - b. Rectangle buffer
 - c. Ring buffer
 - d. None of the above

Answer: c

24) If the elements '1', '2', '3' and '4' are inserted in a queue, what would be order for the removal?

- a. 1234
 - b. 4321
 - c. 3241
 - d. None of the above

Answer :A

25) A list of elements in which enqueue operation takes place from one end, and dequeue operation takes place from one end is___

- a. Binary tree
 - b. Stack
 - c. Queue
 - d. Linked list

Answer :c

26) \	Whic	th of the following principle does Queue use?
a.		LIFO principle
u.	b.	FIFO principle
	c.	Linear tree
	d.	Ordered array
Ans	swe	ег : в
27) \	Whic	h one of the following is not the type of the Queue?
a.		Linear Queue
	b.	Circular Queue
	c.	Double ended Queue
	d.	Single ended Queue
Ans	swe	er:D
28) \	Whic	th one of the following is the overflow condition if linear queue is implemented using an array with a size MAX_SIZE?
a.		rear = front
	b.	rear = front+1
	c.	rear=MAX_SIZE -1
	d.	rear = MAX_SIZE
Ans	swe	er :c
29) \	Whic	th one of the following is the overflow condition if a circular queue is implemented using array having size MAX?
a.		rear= MAX-1
	b.	rear=MAX
	c.	front=(rear+1) mod max
	d.	None of the above
Ans	swe	er :c
30) 7	The 1	time complexity of enqueue operation in Queue is
a.		O(1)
	b.	O(n)
	c.	O(logn)
	d.	O(nlogn)
Ans	swe	PT :A

31) Which of the following that determines the need for the Circular Queue?

- a. Avoid wastage of memory
 - b. Access the Queue using priority
 - c. Follows the FIFO principle
 - d. None of the above

Answer: A

32) Which one of the following is the correct way to increment the rear end in a circular queue?

```
    a. rear = rear + 1
    b. (rear + 1) % max
    c. (rear % max) + 1
    d. None of the above
```

Answer:B

33) Consider the following code.

```
int fun()
1.
2.
    {
3.
      if(isEmpty())
4.
        return -10;
5.
6.
      }
7.
      else
8.
      {
9.
10.
       n= q[front];
11.
       front++;
12.
       return n;
13.
     }
14.
15. }
```

Which operation does the above code perform?

- a. Enqueue
 - b. Dequeue
 - c. Return the front element
 - d. Both b and c

Answer :D

34) In the linked list implementation of queue, where will the new element be inserted?

- a. At the middle position of the linked list
 - b. At the head position of the linked list
 - c. At the tail position of the linked list
 - d. None of the above

Answer :c

35) Ho	ow many Queues are required to implement a Stack?			
a.	3			
b				
c				
d				
Ans	wer:B			
36) W	hich one of the following is not the application of the Queue data structure?			
a.	Resource shared between various systems			
b	. Data is transferred asynchronously			
С	. Load balancing			
d	. Balancing of symbols			
Ans	wer :D			
37) W	hich of the following option is true if implementation of Queue is from the linked list?			
a.	In enqueue operation, new nodes are inserted from the beginning and in dequeue operation, nodes are removed from the			
end.				
b				
C				
d	Both a and b			
Ans	wer:D			
38) Th	ne necessary condition to be checked before deletion from the Queue is			
a.	Overflow			
b	. Underflow			
С	. Rear value			
d	. Front value			
Ans	Answer: B			
39) W	hich data structure is the best for implementing a priority queue?			
a.	Stack			
b	. Linked list			
С	. Array			
d	. Неар			
Ansv	wer :D			
40) W	hich of the following principle is used if two elements in the priority queue have the same priority?			

a.

LIFO

b.	
-	FIFO Linear tree
C.	None of the above
d.	Note of the above
Answ	er :B
41) Whic	h of the following statement is not true regarding the priority queue?
a.	Processes with different priority can be easily handled
b.	Easy to implement
c.	Deletion is easier
d.	None of the above
Answe	er:C
42) A lin	ear data structure in which insertion and deletion operations can be performed from both the ends is
a.	Queue
b.	Dequeue
c.	Priority queue
d.	Circular queue
Answ	er:B
43) In th	e Deque implementation using singly linked list, what would be the time complexity of deleting an element from t
rear end	O(1)
rear end	
rear end' a.	O(1)
rear end [*] a. b.	O(1) O(n²)
rear end [*] a. b. c. d.	O(1) O(n²) O(n) O(nlogn)
a. b. c. d. Answe	O(1) O(n²) O(n) O(nlogn)
a. b. c. d. Answe	$\begin{array}{c} O(1) \\ O(n^2) \\ O(n) \\ O(n\log n) \\ \hline \text{CT : C} \\ \\ \end{array}$ h of the following data structure allows you to insert the elements from both the ends while deletion from only on
a. b. c. d. Answe	$\begin{array}{c} O(1) \\ O(n^2) \\ O(n) \\ O(n\log n) \\ \hline \\ \text{CC} \end{array}$ th of the following data structure allows you to insert the elements from both the ends while deletion from only on Input-restricted queue
a. b. c. d. Answe	O(1) O(n²) O(n) O(nlogn) PT :C The of the following data structure allows you to insert the elements from both the ends while deletion from only on Input-restricted queue Output-restricted queue
tear end' a. b. c. d. Answe	$\begin{array}{c} O(1) \\ O(n^2) \\ O(n) \\ O(n\log n) \\ \hline \\ \text{CC} \end{array}$ th of the following data structure allows you to insert the elements from both the ends while deletion from only on Input-restricted queue
a. b. c. d. Answer 44) Whice end? a. b. c. d.	O(1) O(n²) O(n) O(nlogn) Of :C The of the following data structure allows you to insert the elements from both the ends while deletion from only on Input-restricted queue Output-restricted queue Priority queue None of the above
a. b. c. d. Answer	O(1) O(n²) O(n) O(nlogn) Of :C The of the following data structure allows you to insert the elements from both the ends while deletion from only on Input-restricted queue Output-restricted queue Priority queue None of the above
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tear end' a. b. c. d. Answee 44) Whice end? b. c. d. Answee	O(1) O(n²) O(n) O(nlogn) PT:C In of the following data structure allows you to insert the elements from both the ends while deletion from only on Input-restricted queue Output-restricted queue Priority queue None of the above PT:B It would be the output after performing the following operations in a Deque?

mac.ic	ont();	
nsertfro	• •	
Deletere Display()		
a.	10, 20, 30	
b.	50, 10, 30	
с.	40, 20, 30	
d.	None of the above	
Answ	/er :в	
	a circular queue implementation using array of size 5, the array index starts with 0 where front and rear values espectively. Determine the array index at which the insertion of the next element will take place.	are
ì.	5	
b.	0	
c.	1	
d.	2	
Answ	Yer:B	
irst eler specify t	ircular queue is implemented using array having size MAX_SIZE in which array index starts with 0, front points ment in the queue, and rear points to the last element in the queue. Which one of the following conditions use that the circular queue is empty? Front=rear= -1	
irst eler specify t	ment in the queue, and rear points to the last element in the queue. Which one of the following conditions use that the circular queue is empty?	
First eler specify to a. b. c. d.	ment in the queue, and rear points to the last element in the queue. Which one of the following conditions use that the circular queue is empty? Front=rear= -1 Front=rear=0 Front=rear+1 None of the above	
irist eler specify t a. b. c. d. Answ 48) Con: following	ment in the queue, and rear points to the last element in the queue. Which one of the following conditions use that the circular queue is empty? Front=rear= -1 Front=rear=0 Front=rear+1 None of the above	d to
b. c. d. Answ (48) Confollowing (i) Deletic (ii) Deletic (iii) Deletiv (v) Insert	ment in the queue, and rear points to the last element in the queue. Which one of the following conditions use that the circular queue is empty? Front=rear= -1 Front=rear=0 Front=rear+1 None of the above Yer: A Insider the implementation of the singly linked list having the head pointer only in the representation. Which of ig operations can be performed in O(1) time? On of the last node in the linked list tion at the front of the linked list tion at the front of the linked list tion at the end of the linked list tion at the end of the linked list tion at the end of the linked list	d to
b. c. d. Answ 48) Consolioliowing i) Deletic ii) Insert iii) Deletic v) Insert	ment in the queue, and rear points to the last element in the queue. Which one of the following conditions use that the circular queue is empty? Front=rear= -1 Front=rear=0 Front=rear+1 None of the above Yer: A Insider the implementation of the singly linked list having the head pointer only in the representation. Which of any operations can be performed in O(1) time? On of the last node in the linked list tion at the front of the linked list tion at the front of the linked list tion at the end of the linked list tion at the end of the linked list tion at the end of the linked list	d to
b. c. d. Answ 48) Consollowing) Deletic i) Insert ii) Deletiv v) Insert a. b.	ment in the queue, and rear points to the last element in the queue. Which one of the following conditions use that the circular queue is empty? Front=rear= -1 Front=rear=0 Front=rear+1 None of the above PCF: A Insider the implementation of the singly linked list having the head pointer only in the representation. Which of a operations can be performed in O(1) time? On of the last node in the linked list tion at the front of the linked list tion at the first node in the linked list tion at the end of the linked list ii both ii and iii	d to
b. c. d. Answ 48) Consolioliowing i) Deletic ii) Insert iii) Deletic v) Insert	ment in the queue, and rear points to the last element in the queue. Which one of the following conditions use that the circular queue is empty? Front=rear= -1 Front=rear=0 Front=rear+1 None of the above Yer: A Insider the implementation of the singly linked list having the head pointer only in the representation. Which of any operations can be performed in O(1) time? On of the last node in the linked list tion at the front of the linked list tion at the front of the linked list tion at the end of the linked list tion at the end of the linked list tion at the end of the linked list	d to
first elerspecify to a. b. c. d. Answin (1988) Confollowing (1988) Deletici) Insertici) Insertici) Insertici) Insertici) Electron (1988) Confollowing (1988) Confollow	ment in the queue, and rear points to the last element in the queue. Which one of the following conditions use that the circular queue is empty? Front=rear= -1 Front=rear=0 Front=rear+1 None of the above Yet: A Issider the implementation of the singly linked list having the head pointer only in the representation. Which of g operations can be performed in O(1) time? In on of the last node in the linked list tion at the front of the linked list tion at the front of the linked list tion of the first node in the linked list tion at the end of the linked list If it is both if and iff the linked list to the linked list tion at the of the linked list tion at the of the linked list tion at the both if and iff the linked list tion at the both if and iff the linked list the linked list tion at the both if and iff the linked list tion at the both if and iff the linked list the linked list tion at the both if and iff the linked list the linked list tion at the both if and iff the linked list linke	d to

b. O(n)

- c. O(logn)
- d. O(nlogn)

$Answer: {\tt B}$

- 50) Which of the following is the time complexity to search an element in the linked list?
- a. O(1)
 - b. O(n)
 - c. O(logn)
 - d. O(nlogn)

$Answer: {\tt B}$

Java Multiple Choice Questions

- 1) Which of the following option leads to the portability and security of Java?
- a. Bytecode is executed by JVM
 - b. The applet makes the Java code secure and portable
 - c. Use of exception handling
 - d. Dynamic binding between objects

ANSWER: a

- 2) Which of the following is not a Java features?
- a. Dynamic
 - b. Architecture Neutral
 - c. Use of pointers
 - d. Object-oriented

ANSWER:c

3) What should be the execution order, if a class has a method, static block, instance block, and constructor, as shown below?

- a. Instance block, method, static block, and constructor
- b. Method, constructor, instance block, and static block

- c. Static block, method, instance block, and constructor
- d. Static block, instance block, constructor, and method

Answer:d

4) What will be the output of the following program?

```
public class MyFirst {
   public static void main(String[] args) {
     MyFirst obj = new MyFirst(n);
static int a = 10;
static int n;
int b = 5;
int c;
public MyFirst(int m) {
    System.out.println(a + ", " + b + ", " + c + ", " + n + ", " + m);
// Instance Block
 {
   b = 30;
   n = 20;
// Static Block
 static
      a = 60;
             10, 5, 0, 20, 0
    a.
             10, 30, 20
    b.
    c.
             60, 5, 0, 20
             60, 30, 0, 20, 0
```

Answer:d

- 5) The $\u0021$ article referred to as a
- a. Unicode escape sequence
- b. Octal escape
- c. Hexadecimal
- d. Line feed

Answer:a

- 6) _____ is used to find and fix bugs in the Java programs.
- a. JVM
- b. JRE
- c. JDK

d.	JDB
Answ	er:d
7) Wł	nich of the following is a valid declaration of a char?
a.	char ch = '\utea';
b.	char ca = 'tea';
c.	char $cr = \u0223$;
d.	char cc = '\itea';
Ar	iswer:a
8) Wł	nat is the return type of the hashCode() method in the Object class?
a.	Object
b.	int
c.	long
d.	void
	er·h
9) Wł	nich of the following is a valid long literal?
a.	aich of the following is a valid long literal? ABH8097
9) W ł a. b.	ABH8097 L990023 904423
9) Wł a. b. c.	ABH8097 L990023
9) Wł	ABH8097 L990023 904423 0xnf029L
9) Wha. a. b. c. d.	ABH8097 L990023 904423 0xnf029L
9) Wh a. b. c. d. Answ	ABH8097 L990023 904423 0xnf029L er :d
9) Wha. a. b. c. d. Answ	ABH8097 L990023 904423 0xnf029L er :d That does the expression float a = 35 / 0 return?
9) Wha. b. c. d. Answ 10) Wha. b.	hich of the following is a valid long literal? ABH8097 L990023 904423 0xnf029L er :d That does the expression float $a = 35 / 0$ return?
9) Wh a. b. c. d. Answ 10) W a. b.	ABH8097 L990023 904423 0xnf029L er :d That does the expression float a = 35 / 0 return? 0 Not a Number
9) Wha. b. c. d. Answ 10) Wa. b. c. d.	ABH8097 L990023 904423 0xnf029L er :d That does the expression float a = 35 / 0 return? 0 Not a Number Infinity Run time exception
9) Wh a. b. c. d. Answ 10) W a. b. c. d. Answ	ABH8097 L990023 904423 0xnf029L er :d That does the expression float a = 35 / 0 return? 0 Not a Number Infinity Run time exception
9) Wha. b. c. d. Answ d. Answ d. Answ d. Answ d. Answ d. Answ d.	ABH8097 L990023 904423 0xnf029L er :d What does the expression float a = 35 / 0 return? 0 Not a Number Infinity Run time exception er :c
9) Wha. b. c. d. Answ d. Answ d. Answ d. Answ d. Answ d. Answ d.	ABH8097 L990023 904423 0xnf029L er :d What does the expression float a = 35 / 0 return? O Not a Number Infinity Run time exception er :c valuate the following Java expression, if x=3, y=5, and z=10:
9) Wha. b. c. d. Answ 10) Wa. b. c. d. Answ ++z+	ABH8097 L990023 904423 0xnf029L er:d That does the expression float a = 35 / 0 return? 0 Not a Number Infinity Run time exception er:c valuate the following Java expression, if x=3, y=5, and z=10: y - y + z + x++

```
d.
             25
    Answer :a
    12) What will be the output of the following program?
public class Test {
public static void main(String[] args) {
  int count = 1;
  while (count <= 15) {
  System.out.println(count % 2 == 1 ? "***" : "+++++");
  ++count;
         // end while
    }
       // end main
             15 times ***
    a.
             15 times +++++
    b.
             8 times *** and 7 times +++++
    c.
             Both will print only once
    d.
    Answer:c
    13) Which of the following tool is used to generate API documentation in HTML format from doc comments in
    source code?
             javap tool
    a.
    b.
             javaw command
    c.
             Javadoc tool
    d.
             javah command
    Answer:c
    14) Which of the following creates a List of 3 visible items and multiple selections abled?
             new List(false, 3)
    a.
    b.
             new List(3, true)
             new List(true, 3)
    c.
             new List(3, false)
    d.
    Answer:b
    15) Which of the following for loop declaration is not valid?
    a.
             for ( int i = 99; i >= 0; i / 9 )
```

Answer:a

b.

c.

d.

for (int i = 7; $i \le 77$; i + 7)

for (int i = 2; $i \le 20$; i = 2*i)

for (int i = 20; i >= 2; - -i)

String	hich method of the Class.class is used to determine the name of a class represented by the class object as a ?
a.	getClass()
b.	intern()
c.	getName()
d.	toString()
Answ	er :c
17) In	which process, a local variable has the same name as one of the instance variables?
a.	Serialization
b.	Variable Shadowing
c.	Abstraction
d.	Multi-threading
Answ	er:b
18) W	hich of the following is true about the anonymous inner class?
a.	It has only methods
a. b.	It has only methods Objects can't be created
b.	Objects can't be created
b. c.	Objects can't be created It has a fixed class name It has no class name
b. c. d. Answ	Objects can't be created It has a fixed class name It has no class name
b. c. d. Answ	Objects can't be created It has a fixed class name It has no class name er :d
b. c. d. Answ	Objects can't be created It has a fixed class name It has no class name er :d hich package contains the Random class?
b. c. d. Answ 19) W	Objects can't be created It has a fixed class name It has no class name er :d hich package contains the Random class? java.util package
b. c. d. Answ 19) W a. b.	Objects can't be created It has a fixed class name It has no class name er :d hich package contains the Random class? java.util package java.lang package java.awt package
b. c. d. Answ 19) W a. b.	Objects can't be created It has a fixed class name It has no class name er :d hich package contains the Random class? java.util package java.lang package java.awt package java.awt package java.io package
b. c. Answ 19) W a. b. c. d. Answ	Objects can't be created It has a fixed class name It has no class name er :d hich package contains the Random class? java.util package java.lang package java.awt package java.awt package java.io package
b. c. d. Answ d. d. Answ d. d. Answ d. d. Answ d. Answ d. 20) W	Objects can't be created It has a fixed class name It has no class name er :d hich package contains the Random class? java.util package java.lang package java.awt package java.io package er:a hat do you mean by nameless objects?
b. c. Answ 19) W a. b. c. d. Answ	Objects can't be created It has a fixed class name It has no class name er :d hich package contains the Random class? java.util package java.lang package java.awt package java.io package er:a hat do you mean by nameless objects? An object created by using the new keyword.
b. c. d. Answ 19) W a. b. c. d. Answ 20) W	Objects can't be created It has a fixed class name It has no class name er :d hich package contains the Random class? java.util package java.lang package java.awt package java.io package er:a hat do you mean by nameless objects?

n interface with no fields or methods is known as a
Runnable Interface
Marker Interface
Abstract Interface
CharSequence Interface
rer :b
hich of the following is an immediate subclass of the Panel class?
Applet class
Window class
Frame class
Dialog class
rer :a
hich option is false about the <i>final</i> keyword?
A <i>final</i> method cannot be overridden in its subclasses.
A <i>final</i> class cannot be extended.
A final class cannot extend other classes.
A <i>final</i> method can be inherited.
er :c
hich of these classes are the direct subclasses of the Throwable class?
RuntimeException and Error class
Exception and VirtualMachineError class
Error and Exception class
IOException and VirtualMachineError class
er :c
hat do you mean by chained exceptions in Java?
Exceptions occurred by the VirtualMachineError
An exception caused by other exceptions
Exceptions occur in chains with discarding the debugging information
None of the above
er:b

a.	Stack
b.	String memory
c.	Heap memory
d.	Random storage space
Answ	er:c
27) W	That is the use of the intern() method?
a.	It returns the existing string from memory
b.	It creates a new string in the database
c.	It modifies the existing string in the database
d.	None of the above
Ansv	ver :a
28) W	Thich of the following is a marker interface?
a.	Runnable interface
b.	Remote interface
c.	Readable interface
d.	Result interface
Ansv	ver :b
29) W	/hich of the following is a reserved keyword in Java?
a.	object
a. b.	strictfp
c.	main
d.	system
Answ	er :b
30) W	Thich keyword is used for accessing the features of a package?
a.	package
a. b.	import
c.	extends
d.	export
	er :b
Answ	

- a. Java Archive Runner
- b. Java Application Resource
- c. Java Application Runner
- d. None of the above

Answer :d

32) What will be the output of the following program?

```
public class Test2 {
  public static void main(String[] args) {
     StringBuffer s1 = new StringBuffer("Complete");
     s1.setCharAt(1,'i');
     s1.setCharAt(7,'d');
     System.out.println(s1);
   }
 }
         Complete
a.
b.
         Iomplede
         Cimpletd
c.
         Coipletd
d.
```

Answer:c

- 33) Which of the following is false?
- a. The rt.jar stands for the runtime jar
- b. It is an optional jar file
- c. It contains all the compiled class files
- d. All the classes available in rt.jar is known to the JVM

Answer:b

- 34) What is the use of \w in regex?
- a. Used for a whitespace character
- b. Used for a non-whitespace character
- c. Used for a word character
- d. Used for a non-word character

Answer :c

- 35) Which of the given methods are of Object class?
- a. notify(), wait(long msecs), and synchronized()
- b. wait(long msecs), interrupt(), and notifyAll()
- c. notify(), notifyAll(), and wait()
- d. sleep(long msecs), wait(), and notify()

A	
Answer	.0
Allswei	

36) Given that Student is a class, how many reference variables and objects are created by the following code?

Student studentName, studentId;

studentName = **new** Student();

Student stud_class = **new** Student();

- a. Three reference variables and two objects are created.
- b. Two reference variables and two objects are created.
- c. One reference variable and two objects are created.
- d. Three reference variables and three objects are created.

Answer:a

- 37) Which of the following is a valid syntax to synchronize the HashMap?
- a. Map m = hashMap.synchronizeMap();
- b. HashMap map =hashMap.synchronizeMap();
- c. Map m1 = Collections.synchronizedMap(hashMap);
- d. Map m2 = Collection.synchronizeMap(hashMap);

Answer:c

38) Given,

ArrayList list = **new** ArrayList();

What is the initial quantity of the ArrayList list?

- a. 5
- b. 10
- c. 0
- d. 100

Answer:b

- 39) Which of the following is a mutable class in java?
- a. java.lang.String
- b. java.lang.Byte
- c. java.lang.Short
- d. java.lang.StringBuilder

Answer:d

40) What will be the output of the following program?

```
abstract class MyFirstClass
   abstract num (int a, int b) { }
}
         No error
a.
         Method is not defined properly
b.
         Constructor is not defined properly
c.
d.
         Extra parentheses
Answer:b
41) What is meant by the classes and objects that dependents on each other?
         Tight Coupling
a.
         Cohesion
b.
         Loose Coupling
c.
d.
         None of the above
Answer:a
42) Given,
int values[] = \{1,2,3,4,5,6,7,8,9,10\};
for(int i=0;i< Y; ++i)
System.out.println(values[i]);
Find the value of value[i]?
a.
         10
         11
b.
         15
c.
d.
        None of the above
Answer:d
43) Which of the following code segment would execute the stored procedure "getPassword()" located in a
database server?
a. CallableStatement cs = connection.prepareCall("{call.getPassword()}");
cs.executeQuery();
b. Callabled Statement\ callable = conn.prepare Call("\{call\ getPassword()\}");
callable.executeUpdate();
c. CallableStatement cab = con.prepareCall("{call getPassword()}");
cab.executeQuery();
         d.Callablestatement cstate = connect.prepareCall("{call getpassword()}");
         cstate.executeQuery();
```

Answer :c

- 44) How many threads can be executed at a time?
- a. Only one thread
- b. Multiple threads
- c. Only main (main() method) thread
- d. Two threads

Answer:b

- 45) If three threads trying to share a single object at the same time, which condition will arise in this scenario?
- a. Time-Lapse
- b. Critical situation
- c. Race condition
- d. Recursion

Answer:c

- 46) If a thread goes to sleep
- a. It releases all the locks it has.
- b. It does not release any locks.
- c. It releases half of its locks.
- d. It releases all of its lock except one.

Answer:b

- 47) Which of the following modifiers can be used for a variable so that it can be accessed by any thread or a part of a program?
- a. global
- b. transient
- c. volatile
- d. default

Answer:c

48) What is the result of the following program?

public static synchronized void main(String[] args) throws

```
InterruptedException {
    Thread f = new Thread();
    f.start();
    System.out.print("A");
    f.wait(1000);
    System.out.print("B");
```

a.	It prints A and B with a 1000 seconds delay between them
b.	It only prints A and exits
c.	It only prints B and exits
d.	A will be printed, and then an exception is thrown.
Ansv	ver:d
49) I	n character stream I/O, a single read/write operation performs
a.	Two bytes read/write at a time.
b.	Eight bytes read/write at a time.
c.	One byte read/write at a time.
d.	Five bytes read/ write at a time.
Ansv	ver:a
50) V	What is the default encoding for an OutputStreamWriter?
a.	UTF-8
b.	Default encoding of the host platform
c.	UTF-12
d.	None of the above
Ansv	ver:b

}

MCQS in Fundamentals Of Inforation Technology

1.What is smallest unit of the information? a. A bit b. A byte c. A block d. A nibble
2. What is the decimal equivalent of the binary number 10111? a.21 b.39 c.42 d.23
3. How many color dots make up one color pixel on a screen? a.265 b.16 c.8 d.3
 4. Which of the following natural element is the primary element in computer chips? a. Silicon b. Carbon c. Iron d. Uranium
5. Which of the following is an output device?
a. Keyboard
b. Mouse
c. Light pen
d. VDU
6. Who was the father of computers?
a. Newtonb. Grace Hoppersc. Herman Hollerithd. Charles Babbage
7. Which of the following are components of Central Processing Unit?

a. Mouse, Arithmetic logic Unitb. Arithmetic logic unit, Control Unitc. Control Unit, Integrated Circuits

d. Monitor, Control Unit

8. Printed copy is often called?

- a. Hard Copy
- b. Soft Copy
- c. Write Copy
- d. Blank Copy

9. How many generations of computers are there?

- a. **5**
- b. 4
- c. 3
- d. 6

10. Which of the following memory is non-volatile?

- a. SRAM
- b. **ROM**
- c. DRAM
- d. All of the above

11. A computer consists of?

- a. Motherboard
- b. CPU
- c. Hard Disk Drive
- d. All of the above

12. DOS stands for?

- a. Document Operating System
- b. Disk Operating System
- c. Digital Operating System
- d. None of these

13. Which one of these is an Operating System?

- a. MS-DOS
- b. MS-Word
- c. MS-Office
- d. MS-Access

14. Which windows does not have a start button?

- a. Windows 8
- b. Windows 7
- c. None of these
- d. Windows XP

15. Which one of the following is a Single-User Operating System?
 a. Windows b. MAC c. MS-DOS d. None of these
d. Notice of these
16. What is the name of the feature that allow us to take a step backward if we've made a mistake?
a. Redo
b. Cancel
c . Undo
d. Backspace
17. Ctrl + U provide facility?
a. Undelete the previously deleted text
b. Undelete the previously deleted text
c. Underline the document name
d. Underline the selected text
18. How many margins surrounded around the document page?
a.Two (header and footer)
b.Four (top, bottom, right and left)
c. Two (landscape and portrait)
d. Four (center, top, left and bottom)
19. Which menu option would you choose to list Synonyms & Antonyms of a selected word?
a. Tools, Spelling & Grammar
b. Review, Thesaurus
c. Tools, Options
d. Insert, Cross-reference
20. Which bar is usually located below that Title Bar that provides categorized options?
a. Menu bar
b. Status Bar
c. Tool bar
d. Scroll bar
21 What is the purpose of inserting header and footer in document?
a). to enhance the overall appearance of the document
b). to mark the starting and ending of page

c). to make large document more readable

d). to allow page headers and footers appear on document when printed

22.0	Cho	ose the latest file extension for Microsoft Excel?
a.	ΧI	_SX
b.	D	ос
c.	ΧI	_S
d.	ΧI	_L
Cho	ose	the word-processing program from the following options?
a.	M	IS Word
b.	M	IS Access
C.	M	IS PowerPoint
d.	M	IS Excel
Α	pro	ocess is a
a.		single thread of execution.
	b.	program in the execution
	c.	program in the memory
	d.	task
Ar	ารพ	er:b
		nat is the term for a temporary storage area that compensates for ences in data rate and data flow between devices?
a.		Buffer
	b.	Bus
	c.	Channel
	d.	Modem
Ar	ารพ	er:a

_		to t
a.		.txt
		.xls
		.ppt
	d.	.bmp
Αı	ารพ	er:a
26.	Th	e central processing unit is located in the
a.		Hard disk
	b.	System unit
	c.	Memory unit
	d.	Monitor
Aı	ารพ	er:b
		nich type of program acts as an intermediary between a user of a uter and the computer hardware?
	a.	Operating system
	b.	User thread
	c.	Superuser thread
	d.	Application program
	e.	Answer :a
28	28. What is the full form of USB?	
a.		Unshielded System Board
	b.	Universal System Board
	c.	Unidentified System Bus
	d.	Universal System Bus
An	swe	er:d

25. Which of the following is the extension of Notepad?

29 . Which one of the following is an example of the browser software?
a. Microsoft Word
b. Notepad
c. Internet navigator
d. Internet explorer
Answer : d
30 computers are also called personal computers ?
a. Mainframe Computer
b. Mini Computers
c. Micro Computers
d. Super Computers
Answer: b
31. What was the main disadvantage of vacuum tubes?
a. They were larger in size
b. They consumed a lot of electricity
c. They produced heat and often burned out
d. The operation cost was high
Answer: c
32. Bit stands for?
a. Binary digits
b. Bit of system
c. A part of byte
d. All of above
Answer :a

33 . What is the speed of computer measured in?

- a. Nanoseconds
- b. Kilo-seconds
- c. Gigahertz
- d. Megabytes
- e. Answer :c

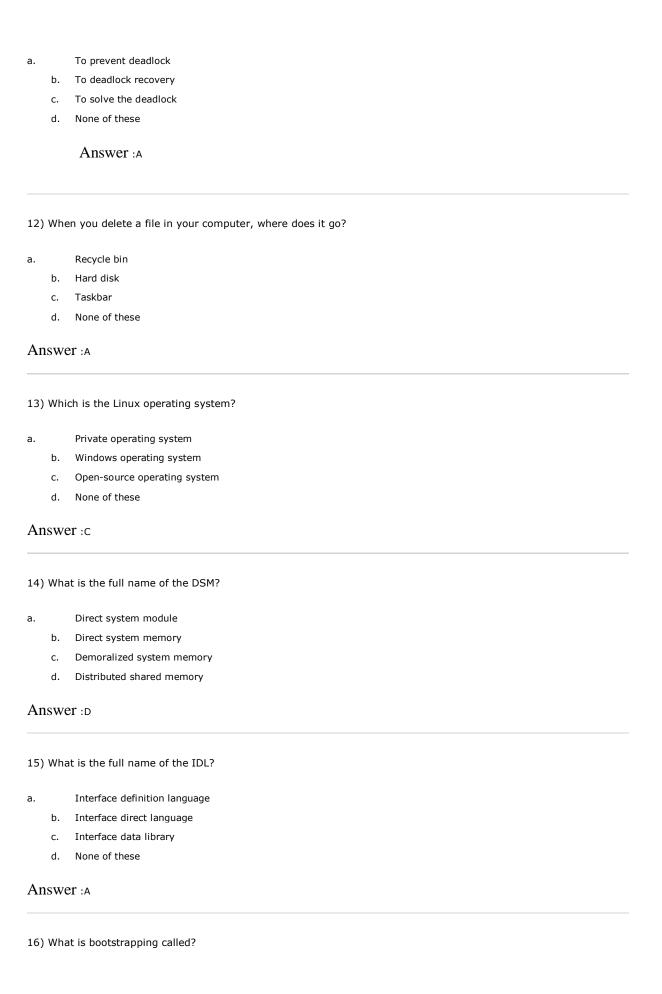
34 : When we delete the file, the file goes to

- My computer
 Control Panel
 Recycle bin
 None of the above

Operating System MCQ

1) Which of the following is not an operating system?		
a.	Windows	
b.	Linux	
c.	Oracle	
d.	DOS	
Answ	er :c	
2) Wha	t is the maximum length of the filename in DOS?	
a.	4	
b.	5	
c.	8	
d.	12	
Answ	er :c	
3) Whe	n was the first operating system developed?	
a.	1948	
b.	1949	
c.	1950	
d.	1951	
Answ	er:c	
4) Whe	n were MS windows operating systems proposed?	
a.	1994	
b.	1990	
c.	1992	
d.	1985	
Answ	er :D	
5) Whic	th of the following is the extension of Notepad?	
a.	.txt	
b.	.xls	
c.	.ppt	
d.	.bmp	
Answ	er :A	

6) What else is a command interpreter called?		
a.		prompt
	b.	kernel
	c.	shell
	d.	command
A	nsw	er:c
7)	What	is the full name of FAT?
a.		File attribute table
	b.	File allocation table
	c.	Font attribute table
	d.	Format allocation table
A	nsw	er :в
8)	BIOS	is used?
a.		By operating system
	b.	By compiler
	c.	By interpreter
	d.	By application software
Ar	ıswe	PT :A
9)	What	is the mean of the Booting in the operating system?
a.		Restarting computer
	b.	Install the program
	c.	To scan
	d.	To turn off
A	nsw	er :A
10)) Whe	en does page fault occur?
a.		The page is present in memory.
	b.	The deadlock occurs.
	c.	The page does not present in memory.
	d.	The buffering occurs.
Ar	ıswe	er:C
11)) Ban	ker's algorithm is used?



a.		Cold boot
	b.	Cold hot boot
	c.	Cold hot strap
	d.	Hot boot
Ar	iswe	er:A
17)	Wha	at is the fence register used for?
a.		To disk protection
	b.	To CPU protection
	c.	To memory protection
	d.	None of these
A	nsw	er :c
18)	If th	e page size increases, the internal fragmentation is also??
a.		Decreases
	b.	Increases
	c.	Remains constant
	d.	None of these
Ar	iswe	ег:в
19)	Whi	ch of the following is a single-user operating system?
_		MG-davie
a.	b.	Windows MAC
	с.	Ms-Dos
	d.	None of these
	u.	Note of these
A	nsw	er :c
20)	The	size of virtual memory is based on which of the following?
a.		CPU
	b.	RAM
	c.	Address bus
	d.	Data bus
Ar	iswe	er:c
21	If a	page number is not found in the translation lookaside buffer, then it is known as a?
~ 1)	11 G	
a.		Translation Lookaside Buffer miss

	b.	Buffer miss
	c.	Translation Lookaside Buffer hit
	d.	All of the mention
		A marriage is
		Answer :A
22) \	Whi	ch of the following is not application software?
a.		Windows 7
	b.	WordPad
	с.	Photoshop
	d.	MS-excel
An	SW	er :A
23) \	Whi	ch of the following supports Windows 64 bit?
a.		Window XP
	b.	Window 2000
	c.	Window 1998
	d.	None of these
Ans	swe	PT :A
24) \	Whi	ch of the following windows does not have a start button?
a.		Windows 7
	b.	Windows 8
	c.	Windows XP
	d.	None of these
۸		
Ans	swe	2T :B
25) \	Whi	ch of the following operating systems does not support more than one program at a time?
a.		Linux
	b.	Windows
	c.	MAC
	d.	DOS
Ans	swe	er :D
26) \	Whic	ch of the following is a condition that causes deadlock?
a.		Mutual exclusion

b.	Hold and wait
c.	Circular wait
d.	No preemption
e.	All of these
Ansv	wer:E
27) WI	ho provides the interface to access the services of the operating system?
a.	API
b.	System call
c.	Library
d.	Assembly instruction
Ansv	wer :B
28) WI	here are placed the list of processes that are prepared to be executed and waiting?
a.	Job queue
b.	Ready queue
c.	Execution queue
d.	Process queue
Answ	ver :B
29) WI	ho among the following can block the running process?
a.	Fork
b.	
c.	
d.	
Answ	ver :D
30) WI	hich of the following does not interrupt the running process?
a.	Timer interrupt
b.	
c.	Power failure
d.	Scheduler process
Answ	ver :B
31) WI	hat is Microsoft window?
2	Operating system
a.	Operating system

l	b.	Graphics program
(c.	Word Processing
(d.	Database program
Ans	SW	rer :A
32) V	۷hi	ch of the following is group of programs?
a.		Accessories
ı	b.	Paint
(c.	Word
(d.	All of above
Ans	we	er :A
33) V	۷hi	ch of the following is an example of a Real Time Operating System?
a.		MAC
ı	b.	MS-DOS
(c.	Windows 10
(d.	Process Control
Ans	we	er :D
34) V	۷hi	ch of the following operating systems do you use for a client-server network?
a.		MAC
ı	b.	Linux
(c.	Windows XP
(d.	Windows 2000
Ans	we	er :D
35) V	Vhi	ch windows was introduced to My Computer?
a.		Windows 10
	b.	Windows XP
(c.	Windows 95
	d.	Windows 98
Ans	we	er :c
36) V	Vha	at type of commands are required to perform various tasks in DOS?
a.		Internal commands

b. External commands

(c.	Valuable commands
(d.	Primary commands
A na	****	
Ans	we	21 :B
37) V	Wha	It is the number of characters contained in the primary name of the file of MS-DOS?
a.		Up to 8 characters
	b.	3 characters
(c.	Up to 10 characters
(d.	None of the above
Ans	SW	er :A
38) V	Whi	ch command is used to fetch a group (.doc) of files that have just been deleted?
a.		Undelete
	b.	Undelete/all
	с.	Undelete *.doc
(d.	All of above
Ans	we	er:c
39) V	Whi	ch of the following is system software?
a.		Operating system
I	b.	Compiler
(c.	Utilities
(d.	All of the above
Ans	we	er:D
40) V	Vhi	ch program runs first after booting the computer and loading the GUI?
-,		
a.		Desktop Manager
I	b.	File Manager
(c.	Windows Explorer
(d.	Authentication
Ans	SW	er:D