MRITUNJAI KUMAR SHARMA (18080252001281) **CCAT-2018** Session Id:9519

✔ Answered:1| UnAnswered:49 | ? For Review: 0

1 ✔	18	35
2	19	36
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13	30	47
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15	32	49
16	33	50
17	34	

A B C D Clear Answer Mark For Review

2. What is output of following code ?

```
main( )
{
 char *p;
 p="Bye";
 printf("%c\n",*&*p);
}
```

A: Bye B: address of p
C: B D: garbage value

A B C D Clear Answer Mark For Review

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✔ Answered:3| UnAnswered:47 | ? For Review: 0

1 ✔	18	35
2 ✔	19	36
3 ✔	20	37
4	21	38
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11	28	45
12	29	46
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14	31	48
15	32	49
16	33	50
17	34	

3. What is output of following code ?

```
main()
{
int A;
for (A = -1;A<=1; A++)
printf("%d\t",!!A);
}
```

A: 1 0 1
B: 65534 0 65534
C: -1 0 1
D: -65534 0 65534

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

4. What is output of following code?

```
main()
{
```

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✔ Answered:4| UnAnswered:46 | ? For Review: 0

1 ✔	18	35
2 ✔	19	36
3 ✔	20	37
4 ✔	21	38
5	22	39
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7	24	41
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9	26	43
10	27	44
11	28	45
12	29	46
13	30	47
14	31	48
15	32	49
16	33	50
17	34	

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

4. What is output of following code?

```
main()
{
    int i,j;
    printf("%d",scanf("%d %d",&i,&j));  // values 10,20 is given as input here
}
```

A: 10 B: 20 C: garbage value D: 2

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

5. What is output of following code ?

```
#define f(g1,g2) g1##g2
main()
{
```

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✔ Answered:4| UnAnswered:46 | ? For Review: 0

1 ✔	18	35
2 ✔	19	36
3 ✔	20	37
4 ✔	21	38
5	22	39
6	23	40
7	24	41
8	25	42
9	26	43
10	27	44
11	28	45
12	29	46
13	30	47
14	31	48
15	32	49
16	33	50
17	34	

5. What is output of following code ?

```
#define f(g1,g2) g1##g2
main()
{
        int var12=100;
        printf("%d",f(var,12));
}
```

A: 10 B: garbage value C: 1200 D: 100

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

6. What is output of following code ?

```
main()
{
  int i=1;
  while (i<=5)
  {
      printf("%d",i);
```

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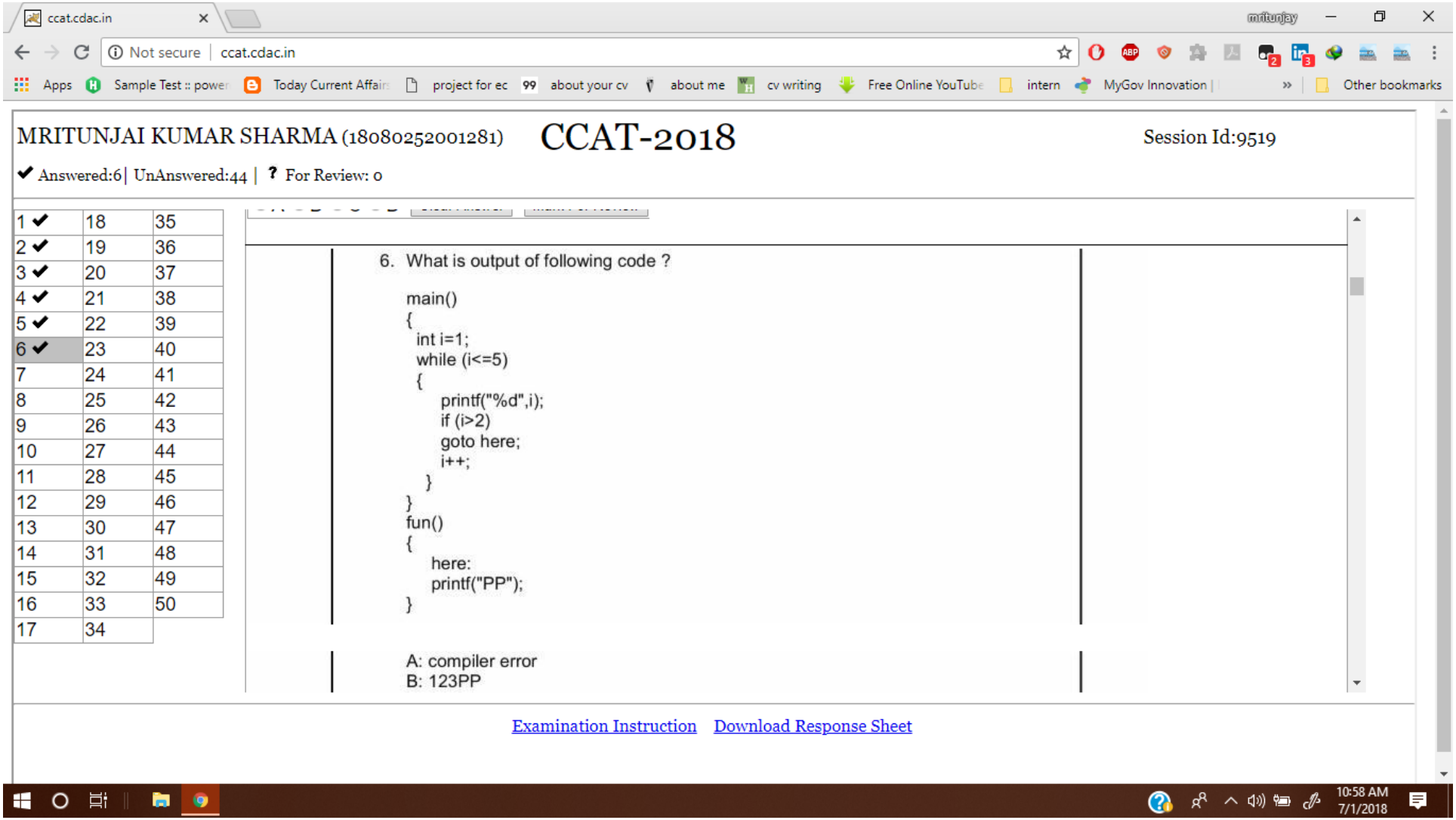
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CCAT-2018
Session Id:9519
Answered:6| UnAnswered:44 | For Review: 0
1 ✔ 18 35
2 ✔ 19 36
3 ✔ 20 37
4 ✔ 21 38
5 ✔ 22 39
6 ✔ 23 40
7 24 41
8 25 42
9 26 43
10 27 44
11 28 45
12 29 46
13 30 47
14 31 48
15 32 49
16 33 50
17 34
6. What is output of following code ?
main()
{
int i=1;
while (i<=5)
{
printf("%d",i);
if (i>2)
goto here;
i++;
}
}
fun()
{
here:
printf("PP");
}
A: compiler error
B: 123PP
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✔ Answered:6| UnAnswered:44 | ? For Review: 0

1 ✔	18	35
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15	32	49
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17	34	

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

7. What is output of following code ?

```
main()
{
  static char names[5][20]={"pascal","ada","cobol","fortran","perl"};
   int i;
   char *t;
   t=names[3];
   names[3]=names[4];
   names[4]=t;
   for (i=0;i<=4;i++)
   printf("%s ",names[i]);
}
```

A: pascal ada cobol fortran perl
B: pascal ada cobol perl fortran
C: compiler error
D: runtime error

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

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✔ Answered:8| UnAnswered:42 | ? For Review: 0

1 ✔	18	35
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7 ✔	24	41
8 ✔	25	42
9	26	43
10	27	44
11	28	45
12	29	46
13	30	47
14	31	48
15	32	49
16	33	50
17	34	

8. What is output of following code ?

```
void func(int x)
  {
        if(x>5)func(--x);
        printf("%d,",x);
  }
  int main( )
  {
        func(10);
        return 0;
  }
```

What will the above code produce when executed?

A: 5,6,7,8,9,10,
B: 5,5,6,7,8,9,
C: 9,8,7,6,5,5,
D: 10,9,8,7,6,5

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

9. What is output of following code ?

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✔ Answered:8| UnAnswered:42 | ? For Review: 0

1 ✔	18	35
2 ✔	19	36
3 ✔	20	37
4 ✔	21	38
5 ✔	22	39
6 ✔	23	40
7 ✔	24	41
8 ✔	25	42
9	26	43
10	27	44
11	28	45
12	29	46
13	30	47
14	31	48
15	32	49
16	33	50
17	34	

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

10. What is output of following code ?

```
main()
{
        int i,j;
        int mat[3][3]={1,2,3,4,5,6,7,8,9};
        for(i=2;i>=0;i--)
        for(j=2;j>=0;j--)
        printf("%d ",*(*(mat+j)+i));
}
```

A: 1 2 3 4 5 6 7 8 9
B: 1 3 5 7 9 2 4 6 8
C: 9 8 7 6 5 4 3 2 1
D: 9 6 3 8 5 2 7 4 1

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

11. What is output of following code ?

```
main()
```

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1 ✔	18	35
2 ✔	19	36
3 ✔	20	37
4 ✔	21	38
5 ✔	22	39
6 ✔	23	40
7 ✔	24	41
8 ✔	25	42
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10 ✔	27	44
11 ✔	28	45
12	29	46
13	30	47
14	31	48
15	32	49
16	33	50
17	34	

C: FG
D: G

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

12. What is output of following code ?

```
#include <stdio.h>
#include <string.h>
int foo(char *);
void main (void)
{
char arr[100] = {"Welcome to CDAC"};
foo (arr);
}
foo (char *x)
{
printf ("%d\t",strlen (x));
printf ("%d\t",sizeof(x));
return 0;
}
```

A: 100 100 B: 15 100 C: 15 15 D: 15 8

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

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✔ Answered:11| UnAnswered:39 | ? For Review: 0

1 ✔	18	35
2 ✔	19	36
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5 ✔	22	39
6 ✔	23	40
7 ✔	24	41
8 ✔	25	42
9	26	43
10 ✔	27	44
11 ✔	28	45
12 ✔	29	46
13	30	47
14	31	48
15	32	49
16	33	50
17	34	

A B C D Clear Answer Mark For Review

13. What is output of following code?

```
void main()
{
int i,a=2,b=3;
for(i=1;i<3;i++)
{
printf("%d",a);
continue;
printf("%d",b);
break;
}
}
```

A: 22 B: 223 C: 3 D: 2

A B C D Clear Answer Mark For Review

14. What is output of following code?

```
main()
```

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1 ✔	18	35
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4 ✔	21	38
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6 ✔	23	40
7 ✔	24	41
8 ✔	25	42
9	26	43
10 ✔	27	44
11 ✔	28	45
12 ✔	29	46
13 ✔	30	47
14	31	48
15	32	49
16	33	50
17	34	

A B C D Clear Answer Mark For Review

13. What is output of following code?

```
void main()
{
int i,a=2,b=3;
for(i=1;i<3;i++)
{
printf("%d",a);
continue;
printf("%d",b);
break;
}
}
```

A: 22 B: 223 C: 3 D: 2

A B C D Clear Answer Mark For Review

14. What is output of following code?

```
main()
```

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✔ Answered:13| UnAnswered:37 | ? For Review: 0

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2 ✔	19	36
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4 ✔	21	38
5 ✔	22	39
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11 ✔	28	45
12 ✔	29	46
13 ✔	30	47
14 ✔	31	48
15	32	49
16	33	50
17	34	

A: 22 B: 223 C: 3 D: 2

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

14. What is output of following code?

```
main()
{
 int i=5,j=6,z;
 printf("%d",i++ + j++);
}
```

A: 12 B: 11 C: 13 D: 10

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

15. What is output of following code ?

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8 ✔	25	42
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10 ✔	27	44
11 ✔	28	45
12 ✔	29	46
13 ✔	30	47
14 ✔	31	48
15 ✔	32	49
16	33	50
17	34	

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

15. What is output of following code ?

```
main()
{
for( printf("a") ; printf("b") ; printf("c") ) ;
}
```

A: abc
B: abcbcbc....(infinite times)
C: abcabcabc.....(infinite times)
D: Error

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

16. The data structure in which element inserted first is deleted last is _____ ?

A: Queue B: Stack C: Tree D: Graph

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10 ✔	27	44
11 ✔	28	45
12 ✔	29	46
13 ✔	30	47
14 ✔	31	48
15 ✔	32	49
16 ✔	33	50
17	34	

}

A: abc
B: abcbcbc....(infinite times)
C: abcabcabc.....(infinite times)
D: Error

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

16. The data structure in which element inserted first is deleted last is _____ ?

A: Queue B: Stack C: Tree D: Graph

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

17. Given n elements in an array, what is time complexity to merge sort?

A: O(1)
B: $O(\log_2 n)$
C: $O(n\log_2 n)$
D: O(n)

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12 ✔	29	46
13 ✔	30	47
14 ✔	31	48
15 ✔	32	49
16 ✔	33	50
17	34	

16. The data structure in which element inserted first is deleted last is _____ ?

A: Queue B: Stack C: Tree D: Graph

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

17. Given n elements in an array, what is time complexity to merge sort?

A: O(1)
B: $O(\log_2 n)$
C: $O(n\log_2 n)$
D: O(n)

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

18. In binary tree data structure if root node is at level 0, what are maximum number of nodes at level l?

A: l nodes
B: 2*l nodes
C: 2+l nodes

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10 ✔	27	44
11 ✔	28	45
12 ✔	29	46
13 ✔	30	47
14 ✔	31	48
15 ✔	32	49
16 ✔	33	50
17	34	

C: $O(n\log_2 n)$
D: O(n)

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

18. In binary tree data structure if root node is at level 0, what are maximum number of nodes at level l?

A: l nodes
B: 2*l nodes
C: 2+l nodes
D: 2^l nodes

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

19. For Infix expression A/B-C, what is the equivalent postfix expression?

A: AB-C/
B: AB/C-
C: ABC/-
D: ABC-/

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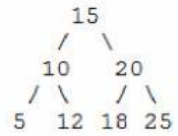
9	26	43
10 ✔	27	44
11 ✔	28	45
12 ✔	29	46
13 ✔	30	47
14 ✔	31	48
15 ✔	32	49
16 ✔	33	50
17	34	

20. For deleting an element from the beginning of the list, which representation is better?

A: Linked List representation
B: Tree Representation
C: Array representation
D: Graph Representation

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

21. What is Preorder traversal of below binary search tree?



A: 5 10 12 15 18 20 25
B: 5 12 10 18 25 20 15
C: 25 20 18 15 12 10 5
D: 15 10 5 12 20 18 25

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

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7 ✔	24 ✔	41
8 ✔	25 ✔	42
9	26 ✔	43
10 ✔	27 ✔	44
11 ✔	28	45
12 ✔	29	46
13 ✔	30	47
14 ✔	31	48
15 ✔	32	49
16 ✔	33	50
17	34	

B: information about the variables
C: information about object members
D: none of the above

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

28. Which is not true about vtable?

A: Runtime polymorphism is achieved with virtual function
B: Vtable is maintained per class
C: Every object contains one Vtable
D: Vtable contains address of Virtual function

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

29. _____ Stream class is used to both read and write from/to files

A: ofstream
B: Ifstream
C: stream
D: fstream

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4 ✔	21 ✔	38
5 ✔	22	39
6 ✔	23 ✔	40
7 ✔	24 ✔	41
8 ✔	25 ✔	42
9	26 ✔	43
10 ✔	27 ✔	44
11 ✔	28	45
12 ✔	29 ✔	46
13 ✔	30 ✔	47
14 ✔	31 ✔	48
15 ✔	32 ✔	49
16 ✔	33	50
17	34 ✔	

35. Which of the following provides a storage mechanism for incoming mail but does not allow a user to download messages selectively?

A: SMTP
B: DHCP
C: IMAP
D: POP3

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

36. The main difference between TCP and UDP is

A: UDP is connection oriented where as TCP is datagram service
B: TCP is an Internet protocol where as UDP is an ATM protocol
C: UDP is a datagram where as TCP is a connection oriented service
D: All of the above

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

37. Which file transfer protocol uses UDP?

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1 ✔	18 ✔	35 ✔
2 ✔	19	36 ✔
3 ✔	20 ✔	37 ✔
4 ✔	21 ✔	38 ✔
5 ✔	22	39 ✔
6 ✔	23 ✔	40
7 ✔	24 ✔	41
8 ✔	25 ✔	42
9	26 ✔	43
10 ✔	27 ✔	44
11 ✔	28	45
12 ✔	29 ✔	46
13 ✔	30 ✔	47
14 ✔	31 ✔	48
15 ✔	32 ✔	49
16 ✔	33	50
17	34 ✔	

38. The physical layer of a network

A: Defines the electrical characteristics of signals passed between the computer and communication devices
B: Controls error detection and correction
C: Constructs packets of data and sends them across the network
D: All of the above

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

39. An error detecting code is which code is the remainder resulting from dividing the bits to be checked by a predetermined binary number, is known as

A: Cyclic redundancy check
B: Checksum
C: Error detecting code
D: Error rate

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

40. In OSI model, which of the following layer provides error-free delivery of data?

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✔ Answered:34| UnAnswered:16 | ? For Review: 0

1 ✔	18 ✔	35 ✔
2 ✔	19	36 ✔
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8 ✔	25 ✔	42
9	26 ✔	43
10 ✔	27 ✔	44
11 ✔	28	45
12 ✔	29 ✔	46
13 ✔	30 ✔	47
14 ✔	31 ✔	48
15 ✔	32 ✔	49
16 ✔	33	50
17	34 ✔	

B: Bus
C: Star
D: Mesh

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

42. Banker's algorithm for resource allocation deals with

A. Deadlock avoidance
B. Deadlock recovery
C. Mutual exclusion
D. None of the above

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

43. Which of the following statements is false?

A: A process scheduling algorithm is preemptive if the CPU can be forcibly removed from a process
B: Time sharing systems generally use preemptive CPU scheduling
C: Response time are more predictable in preemptive systems than in non

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14 ✔	31 ✔	48 ✔
15 ✔	32 ✔	49 ✔
16 ✔	33	50
17	34 ✔	

1. What is output of following code?

```
main( )
{
        int i = 0,j = -1,k = 0,l =2,m;
        m = ++i || j++ && k++ && l++;
        printf("%d %d %d %d %d",i,j,k,l,m);
}
```

A: 1 0 1 3 1 B: 1 -1 0 2 1
C: 0 0 1 3 1 D: 1 0 1 2 1

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

2. What is output of following code ?

```
main( )
{
```

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13 ✔	30 ✔	47 ✔
14 ✔	31 ✔	48 ✔
15 ✔	32 ✔	49 ✔
16 ✔	33	50
17	34 ✔	

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

2. What is output of following code ?

```
main( )
{
 char *p;
 p="Bye";
 printf("%c\n",*&*p);
}
```

A: Bye B: address of p
C: B D: garbage value

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

3. What is output of following code ?

```
main()
{
```

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14 ✔	31 ✔	48 ✔
15 ✔	32 ✔	49 ✔
16 ✔	33	50
17	34 ✔	

3. What is output of following code ?

```
main()
{
int A;
for (A = -1;A<=1; A++)
printf("%d\t",!!A);
}
```

A: 1 0 1
B: 65534 0 65534
C: -1 0 1
D: -65534 0 65534

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

4. What is output of following code?

```
main()
{
    int i,j;
    printf("%d",scanf("%d %d",&i,&j));  // values 10,20 is given as input here
}
```

A: 10 B: 20 C: garbage value D: 2

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14 ✔	31 ✔	48 ✔
15 ✔	32 ✔	49 ✔
16 ✔	33	50
17	34 ✔	

4. What is output of following code?

```
main()
{
    int i,j;
    printf("%d",scanf("%d %d",&i,&j));  // values 10,20 is given as input here
}
```

A: 10 B: 20 C: garbage value D: 2

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

5. What is output of following code ?

```
#define f(g1,g2) g1##g2
main()
{
        int var12=100;
        printf("%d",f(var,12));
}
```

A: 10 B: garbage value C: 1200 D: 100

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16 ✔	33	50
17	34 ✔	

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

6. What is output of following code ?

```
main()
{
  int i=1;
  while (i<=5)
  {
      printf("%d",i);
      if (i>2)
      goto here;
      i++;
   }
}
fun()
{
    here:
    printf("PP");
}
```

A: compiler error
B: 123PP
C: runtime error
D: 123PP4PP5PP

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13 ✔	30 ✔	47 ✔
14 ✔	31 ✔	48 ✔
15 ✔	32 ✔	49 ✔
16 ✔	33	50
17	34 ✔	

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

7. What is output of following code ?

```
main()
{
  static char names[5][20]={"pascal","ada","cobol","fortran","perl"};
   int i;
   char *t;
   t=names[3];
   names[3]=names[4];
   names[4]=t;
   for (i=0;i<=4;i++)
   printf("%s ",names[i]);
}
```

A: pascal ada cobol fortran perl
B: pascal ada cobol perl fortran
C: compiler error
D: runtime error

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

8. What is output of following code ?

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14 ✔	31 ✔	48 ✔
15 ✔	32 ✔	49 ✔
16 ✔	33	50
17	34 ✔	

8. What is output of following code ?

```
void func(int x)
  {
        if(x>5)func(--x);
        printf("%d,",x);
  }
  int main( )
  {
        func(10);
        return 0;
  }
```

What will the above code produce when executed?

A: 5,6,7,8,9,10,
B: 5,5,6,7,8,9,
C: 9,8,7,6,5,5,
D: 10,9,8,7,6,5

A B C D Clear Answer Mark For Review

9. What is output of following code ?

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13 ✔	30 ✔	47 ✔
14 ✔	31 ✔	48 ✔
15 ✔	32 ✔	49 ✔
16 ✔	33	50
17	34 ✔	

9. What is output of following code ?

```
main( )
{
        void pa(int *a,int n);
        int arr[5]={5,4,3,2,1};
        pa(arr,5);
}
void pa(int *a,int n)
{
        int i;
        for(i=0;i<n;i++)
          printf("%d ",*(a++)+i);
}
```

A: 5 5 5 5 5
B: 5 4 3 2 1
C: 4 3 2 1 <garbage>
D: 6 5 4 3 2

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

10. What is output of following code ?

```
main()
{
```

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10 ✔	27 ✔	44 ✔
11 ✔	28	45 ✔
12 ✔	29 ✔	46
13 ✔	30 ✔	47 ✔
14 ✔	31 ✔	48 ✔
15 ✔	32 ✔	49 ✔
16 ✔	33	50
17	34 ✔	

C: 4 3 2 1 <garbage>
D: 6 5 4 3 2

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

10. What is output of following code ?

```
main()
{
        int i,j;
        int mat[3][3]={1,2,3,4,5,6,7,8,9};
        for(i=2;i>=0;i--)
        for(j=2;j>=0;j--)
        printf("%d ",*(*(mat+j)+i));
}
```

A: 1 2 3 4 5 6 7 8 9
B: 1 3 5 7 9 2 4 6 8
C: 9 8 7 6 5 4 3 2 1
D: 9 6 3 8 5 2 7 4 1

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

11. What is output of following code ?

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