1) **What will be output of following c code?** *[NACTAR- AI(ICT)-2020]*

```c
int main ()
{
    int i = 0;
    for (i = 0; i < 20; i++)
    {
        switch (i)
        {
            case 0:i += 5;
            case 1:i += 2;
            case 5:i += 5;
            default:i += 4;
            break;
        }
    }
    printf ("%d", i);
    return 0;
}
```

Handwritten working:

$i = 0$
switch(0)
$i = 0+5 = 5$
$l = 5+2 = 7$
$i = 7+5 = 12$
$l = 12+4 = 16$
$l = 16+4 = 17$
22

$17 < 20$ ✓
switch(17)
$i = 17 + 4$
$= 21$
$l = 21 + 1 = 22$
22
$22 < 20$ ✗

Explanation:

☞ If we don't use break then all case will work. Here, initially the value of i=0. Then it check the condition. First , it check case 0 and added 5 with I so the value of i is i=0+5=5. Here, we don't use any break statement. So, next case also work and so on.

2) **What will be output of following c code?** *[Pally Sanchaya Bank (AP)-2018]*

```c
#include<stdio.h>
int main(){
    for(;;) {
        printf("%d ",10);
    }
    return 0;
}
```

infinite times.

3) **What will be output of following c code?** *[Pally Sanchaya Bank (AP)-2018]*

```c
int main()
{
    inti=2,j=2;
    while(i?--i:j++)
    printf("%d",i);
    return 0;
}
```
Output:

Handwritten: 5 5 6

$6+5-1-5+ (1+2+y-1-y+2+1+1$

$= 6+5-1-5+6+8+1$

$= 10+6$

$= 16$

4) **Find output:** *[SBL-ADA-20]*

```
int x=5, y=5, z=5;
printf ("%d", ++z+y-1-y+z+x++);
```
✓ **16**   **15**

$= 10+6$
$= 16$

5) **What will be the output of this c program?** *[SBL and JBL- OFF (IT) - 2019]*

#include<stdio.h>	a) 1-2- b)1-
int main(){	c) No output (output screen will be empty)
int i=1;	d) The program will cause an infinite loop and has to

$Sum z + t + z$

``
do{
  printf("%d-", i++);
}
while (i<=0);
return 0;
}
``
	be stopped.
	Ans.: 1-

6) What will be output of following c code? *[Pally Sanchaya Bank (P)-2018] [EPB (P)-2018]*

```int main(){```	```int main(){```

```int main(){```
```char str[120] = "Digital Bangladesh";```
```int n;```
```n=strlen(str);```
```str[4]='\0';```
```printf("%s",str);```
```return 0;```
```}```
	```int main(){```
	```int i;```
	```for(i=0;i<5;i++){```
	```if(i==3)```
	```continue;```
	```printf("%d\n",i);```
	```}```
	```return 0;```
	```}``` 0, 1, 2, 4

Outp ~~...~~ Print 0 index to null	**Outp** ~~0 1 2 4~~ When in... it continue loop not print .

7) What is the correct output of the following C program? *[Com 6 bank AP-2021]*
```
int array[] = {6,7,8,9,0,1,2,3,4,5,6};
*p=array+5;
printf("%d\n", p[1]);
```
A. 1   B. 2 ✓   C. 3   D. Compile Error

8) Consider the following recursive function fun(x, y). What is the value of fun (4, 3)? *JBL and JBL-OFF (IT) - 2019]*

| ```int fun (int x, int y) {```
```if(x==0)```
```return y;```
```return fun (x-1, x+y);```
```}``` 3 7 2⌡10, 11 0⌡13 | a) 9   b) 10
c) 12 d) 13

13 |

9) Find output: *[JBL-SO(IT)-20]*

| ```int i=4;```
```printf("%d %d", ++i, i++);```
```printf("%d", i++);``` | a) 5,4,6   b) 5,7,8
c) 6,4,6   d) 4,5,7 8 |

10) Find output: *[DPDC-JAM(ICT)-2020]*

| ```int main ()```
```{```
``` int i = -3, j = 1, k = 0, m;```
``` m = ++i || ++j && ++k;```
``` printf ("%d %d %d %d", i, j, k, m);```
``` return 0;```
```}``` | Ans: -2, 1, 0, 1.
-2 |

i++ = 1st
++i

m = ++i || (++j && ++k)
= -2 || (++j && ++k)
= true || ...
= -2 || X
false || True = True

6,4,6

m = 1 / 0   (−2, 1, 0, 1)

11) **Find output:** *[BD Competition Commission- Programmer- 2019]*

int main ()
{
  char *f[] = { "Ronaldo", "Messi", "Zidan", "Maradona" };
  printf ("%s\n", f[1] + 2);
  printf ("%s", f[2] + 1);
  return 0;
}
	Output:

12) **Find output:** *[DESCO-SAE(CSE)-2019]*

#include<stdio.h>
#define x 3+2/4*3-2*4+(5-4*3)
int main ()
{
  int i, y;
  y = 6 + 3 * 3 / 5;
  i = x * x + y;
  printf ("%d", i);
  return 0;
}
	Output: