

# CMR Engineering College

Name :Heman Babu  
Roll no:228r1a62b1  
Branch :CMREC  
Batch :2022-26

Email :228r1a62b1@cmrec.ac.in  
Phone :7989053640  
Department :CS  
Degree :B.Tech CS

## 2022-26\_I\_CS\_B\_C Programming Lab

### C PROGRAMMING LAB\_MCQ TEST\_LOOPING STATEMENTS

Attempt : 1  
Total Mark : 30  
Marks Obtained : 27

#### Section 1 : MCQ

1. Example of iteration in C.

**Answer**

All of the mentioned

**Status : Correct**

**Marks : 1/1**

2. How many times i value is checked in the below code?

```
#include <stdio.h>
int main()
{
    int i = 0;
    while (i < 3)
        i++;
    printf("In while loop\n");
}
```

**Answer**

4

**Status :** Correct

**Marks :** 1/1

3. Which keyword is used to come out of a loop only for that iteration?

**Answer**

continue

**Status :** Correct

**Marks :** 1/1

4. What is the output of this C code?

```
#include <stdio.h>

int main()
{
    int i = 0, j = 0;
    while (i < 5, j < 10)
    {
        i++;
        j++;
    }
    printf("%d, %d\n", i, j);
}
```

**Answer**

10, 10

**Status :** Correct

**Marks :** 1/1

5. What is the output of the following code?

```
#include <stdio.h>
```

```

int main()
{
    int val = 1;
    do {
        val++;
        ++val;
    } while (val++ > 25);
    printf("%d\n", val);
    return 0;
}

```

**Answer**

4

**Status :** Correct

**Marks :** 1/1

6. The correct syntax for running two variable for loop simultaneously is.

**Answer**

None of the mentioned

**Status :** Wrong

**Marks :** 0/1

7. How many times i value is checked in the below code ?

```

#include <stdio.h>
int main()
{
    int i = 0;
    do
    {
        i++;

    }
    while (i < 3);
    printf("%d",i);
}

```

**Answer**

3

**Status :** Correct

**Marks :** 1/1

8. What is the output of this C code?

```
#include <stdio.h>

int main()
{
    int a = 0, i = 0, b;
    for (i = 0; i < 5; i++)
    {
        a++;
        continue;
    }
    printf("%d", a);
}
```

**Answer**

5

**Status :** Correct

**Marks :** 1/1

9. Number of times while loop condition is tested is, i is initialized to 0 in both case.

```
while (i < n)
    i++;
    -----
do
    i++;
while (i <= n);
```

**Answer**

n, n

**Status : Wrong**

**Marks : 0/1**

10. The following code 'for(;;)' represents an infinite loop. It can be terminated by.

**Answer**

All of the mentioned

**Status : Wrong**

**Marks : 0/1**

11. What is the output of this C code?

```
#include <stdio.h>
void main()
{
    int i = 0;
    while (++i)
    {
        printf("H");
    }
}
```

**Answer**

H is printed infinite times

**Status : Correct**

**Marks : 1/1**

12. What is the output of this C code?

```
#include <stdio.h>
int main()
{
    int i = 0;
```

```
do
{
i++;
if (i == 2)
continue;
printf("In while loop ");
} while (i < 2);
printf("%d\n", i);
}
```

**Answer**

In while loop 2

**Status :** Correct

**Marks :** 1/1

13. Which command is used to skip the rest of a loop and carry on from the top of the loop again?

**Answer**

continue

**Status :** Correct

**Marks :** 1/1

14. What is the output of this C code?

```
#include <stdio.h>
int main()
{
int i = 0;
char c = 'a';
while (i < 2){
```

```
i++;  
switch (c) {  
case 'a':  
printf("%c ", c);  
break;  
break;  
}  
}  
printf("after loop\n");  
}
```

**Answer**

a a after loop

**Status :** Correct

**Marks :** 1/1

15. What is the output of this C code?

```
#include <stdio.h>  
void main()  
{  
int i = 0;  
while (i < 10)  
{  
i++;  
printf("hi\n");  
} while (i < 8)  
i++;  
printf("hello\n");
```

```
}
```

**Answer**

Hi is printed 10 times, hello 1 time.

**Status :** Correct

**Marks :** 1/1

16. What is output of code given below?

```
#include <stdio.h>
int main()
{
    int i = 0, j = 0;
    while (i < 2)
    {
        l1 : i++;
        while (j < 3)
        {
            printf("Loop\n");
            goto l1;
        }
    }
}
```

**Answer**

Infinite Loop

**Status :** Correct

**Marks :** 1/1

17. Consider the following program segment

```
i = 6720;
j = 4;
while ((i % j) == 0)
{
    i = i / j;
```



```
j = j + 1;  
}
```

on termination j will have the value

**Answer**

9

**Status : Correct**

**Marks : 1/1**

18. Which for loop has range of similar indexes of 'i' used in for (i = 0; i < n; i++)?

**Answer**

for (i = n-1; i > -1; i--)

**Status : Correct**

**Marks : 1/1**

19. What is the output of this C code?

```
#include <stdio.h>  
void main()  
{  
int k = 0;  
for (k < 3; k++)  
printf("Hello");  
}
```

**Answer**

Compile time error

**Status : Correct**

**Marks : 1/1**

20. Which loop is most suitable to first perform the operation and then

test the condition ?

**Answer**

do-while loop

**Status : Correct**

**Marks : 1/1**

21. Comment on the output of this C code?

```
#include <stdio.h>
int main()
{
    int x = 3, i = 0;
    do
    {
        x = x++;
        i++;
    }
    while (i != 3);
    printf("%d\n", x);
}
```

**Answer**

Output will be 3

**Status : Correct**

**Marks : 1/1**

22. What is the output of this C code?

```
#include <stdio.h>
int main()
{
    int a = 4, n, i, result = 0;
    scanf("%d", &n);
    for (i = 0; i < n; i++)
        result += a;
```

```
printf("%d",result) ;  
}
```

**Answer**

Multiplication of a and n.

**Status :** Correct

**Marks :** 1/1

23. What is the output of this C code?

```
#include <stdio.h>  
void main()  
{  
int i = 0, j = 0;  
for (i = 0; i < 5; i++)  
{  
for (j = 0; j < 4; j++)  
{  
if (i > 1)  
break;  
}  
printf("Hi \n");  
}  
}
```

**Answer**

Hi is printed 5 times

**Status :** Correct

**Marks :** 1/1

24. A program stops its execution when break statement is encountered.

**Answer**

False

**Status :** Correct

**Marks :** 1/1

25. What is the output of this C code?

```
#include <stdio.h>
void main()
{
double k = 0;
for (k = 0.0; k < 3.0; k++);
printf("%lf", k);
}
```

**Answer**

3.000000

**Status :** Correct

**Marks :** 1/1

26. What is the output of this C code?

```
#include <stdio.h>
int main()
{
int i = 0;
while (i = 0)
printf("True\n");
printf("False\n");
}
```

**Answer**

False

**Status :** Correct

**Marks :** 1/1

27. What is the output of this C code?

```
#include <stdio.h>
void main()
{
    int i = 0;
    do
    {
        printf("Hello");
    } while (i != 0);
}
```

**Answer**

Hello

**Status :** Correct

**Marks :** 1/1

28. The output of the code below is

```
#include <stdio.h>
void main()
{
    int i = 0, k;
    if (i == 0)
        goto label;
    for (k = 0; k < 3; k++)
    {
        printf("hi\n");
    }
}
```

```
        label: k = printf("%03d", i);
    }
}
```

**Answer**

000

**Status : Correct**

**Marks : 1/1**

29. Comment on the output of this C code?

```
#include <stdio.h>
int main()
{
    int a[5] = {1, 2, 3, 4, 5};
    int i;
    for (i = 0; i < 5; i++)
        if ((char)a[i] == '5')
            printf("%d\n", a[i]);
        else
            printf("FAIL\n");
}
```

**Answer**

Program will compile and print FAIL for 5 times

**Status : Correct**

**Marks : 1/1**

30. What is the output of this C code?

```
#include <stdio.h>
int main()
{
    int i = 0;
    for (; ; )
        printf("In for loop\n");
}
```

```
printf("After loop\n");  
}
```

***Answer***

Compile time error

***Status :*** Correct

***Marks :*** 1/1