

Q) What are loop concepts?

D) `#include <stdio.h>`

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

- a) 0
- b) 4
- c) 5
- d) Compile error

Ans:- c) 5

→ Which of the following describes an infinite for loop in C?

- a) `for (int i=0; i<5; i--)`
- b) `for (; ;)`
- c) `for (int i=0; i>5; i++)`
- d) `for (int i=0; i=5; i++)`

Ans:- b) `for (; ;)`

E) `#include <stdio.h>`

```
int main() {
    int count = 0;
    for (int i=0; i<3; i++) {
        for (int j=0; j<2; j++) {
            count++;
        }
    }
    printf("%d\n", count);
    return 0;
}
```

What will be the output of the following program?

- a) 3
- b) 2
- c) 5
- d) 6

Ans:- d) 6

4) #include <stdio.h>

```
void main () {  
    int i;  
    for(i=0, i<5, i++)  
    {  
        printf("Hi");  
    }  
}
```

- a) Hi is printed 5 times
- b) Hi is printed 4 times
- c) Runtime error
- d) Compiler error

Ans:- d) compiler error

5) #include <stdio.h>

```
void main ()  
{  
    int x = 0;  
    if(x=0)  
        printf ("coder\n");  
    else  
        printf ("fundamental\n");  
}
```

- a) coder
- b) funda
- c) Runtime error

d) none

Ans:- b) funda

6) Which of the following is true?

#include <stdio.h>

Void main()

{

int c2pro = 1, c1pro = 3, cpro = 4;

c2pro += c1pro ! == c2pro == cpro < c1pro + 2;

printf ("%d", c2pro);

}

a) 1

b) 2

c) 3

d) 4

Ans:- b) 2

#include <stdio.h>

Void main()

{

int a = 0, b = 1, c;

if (a && (b == 5))

c = 1

else

c = 2;

printf ("%d %d %d", a, b, c);

a) 0 1 1

b) 0 1 2

c) 0 5 2

d) 0 5 1

-b) 0 1 2

8) # include <stdio.h>

```
int main() {  
    int i;  
    for (i=0; i<3; i++)  
        printf("%d", i);  
    }  
return 0;  
}
```

- a) 0 1 2 3
- b) 0 1 2
- c) 1 2 3
- d) compiler error

Ans:- b) 0 1 2

9) How can you create an infinite "for" loop?

- a) for (; ;)
- b) for (1; 1 ; 1)
- c) for (int i=0; ; i++)
- d) All of the above

Ans:- d) All of the above

10) # include <stdio.h>

```
int main() {  
    int x=5;  
    do {  
        printf("%d", x);  
        x--;  
    } while (x>0);  
    return 0;  
}
```

- a) 5 4 3 2 1 0
- b) 5 4 3 2 1

D) Infinite loop

Ans:- B) 54321

II) - the code for (; ;) represents an infinite loop if can be terminated by _____

- a) break
- b) continue
- c) switch
- d) none

Ans:- break

12 int i=0;
while(i<5){
 printf("%d", i);
 i++
}

A) 01234

B) 12345

C) 012345

D) None

Ans:- A) 01234

13) int x = 10;
while(x>0){
 x -= 3;
 printf("%d", x);

A) 1

B) -2

C) 0

Ans:- B) - 2

14) #include <stdio.h>

```
int main()
{
    while()
        printf("In while loop");
        printf("After loop\n");
}
```

- a) In while loop
- b) After loop
- c) Compile time error
- d) Infinite loop

Ans:- c) Compile time error

15) #include <stdio.h>

```
int main()
{
    int i = 0;
    do
        i++;
    printf("In while loop\n");
} while (i < 3);
}
```

- a) 3 times in while loop
- b) 2 times print in while loop
- c) depends on the compiler
- d) compiler time error

Ans:- a) 3 times print in while loop.

16 #include <stdio.h>

```
int main()
{
    int i = 0;
    do {
        if ('.
        printf ("In while loop\n");
    } while (i < 3);
}
```

How many times i value is checked?

- a) 2
- b) 3
- c) 4
- d) 1

Ans:- b) 3

17) #include <stdio.h>

```
void main()
{
    int i = 2;
    do
    { print ("Hi")
    } while (i < 2)
}
```

- a) compile time error
- b) Hi Hi
- c) Hi
- d) none

Ans:- a) compiler error because ~~last~~ semicolon
is missing end of the while statement.

```

void main()
{
    int i=0;
    while (i++):
    {
        printf ("H")
    }
}

```

- a) H
 b) H is printed infinite times
 c) compiler error
 d) varies

Ans:- b) H is printed infinite times.

```

1) void main() {
    int i=0
    do {
        printf ("Hello");
    } while (i!=0);
}

```

- a) Nothing
 b) Hello Hello
 c) Hello
 d) Run time error

Ans:- c) Hello. because $i \neq 0$ ($i=0$ is true) so Hello prints

```

20) void main() {
    int i=0
    while (i<3)
    {
        printf (" you");
    }
}

```

Ans:- a) compiler error

- A) compiler error
 B) you
 C) you you
 D) you you you