1. The following code 'for(; ;)' represents an infinite loop. It can be terminated by.
a) break
b) exit(0)
c) abort()
d) All of the mentioned

2. The correct syntax for running two variable for loop simultaneously is.
a) for (i = 0; i < n; i++)
    for (j = 0; j < n; j += 5)
b) for (i = 0, j = 0;i < n, j < n; i++, j += 5)
c) for (i = 0; i < n;i++){}
    for (j = 0; j < n;j += 5){}
d) None of the mentioned

3. Which for loop has range of similar indexes of 'i' used in for (i = 0;i< n; i++)?
a) for (i = n; i>0; i−)
b) for (i = n; i >= 0; i−)
c) for (i = n-1; i>0; i−)
d) for (i = n-1; i>-1; i−)

4. What is the output of this C code?
        short i;
        for (i = 1; i >= 0; i++)
                printf("%d\n", i);
a) The control won't fall into the for loop
b) Numbers will be displayed until the signed limit of short and throw a runtime error
c) Numbers will be displayed until the signed limit of short and program will successfully terminate
d) This program will get into an infinite loop and keep printing numbers with no errors

5. What is the output of this C code?
        int k = 0;
        for (k)
            printf("Hello");
a) Compile time error
b) hello
c) Nothing
d) Varies

6. What is the output of this C code?
        int k = 0;
        for (k < 3; k++)
        printf("Hello");
a) Compile time error
b) Hello is printed thrice
c) Nothing

d) Varies

7. What is the output of this C code?
```
double k = 0;
for (k = 0.0; k < 3.0; k++)
    printf("Hello");
```
a) Run time error
b) Hello is printed thrice
c) Hello is printed twice
d) Hello is printed infinitely

8. What is the output of this C code?
```
double k = 0;
for (k = 0.0; k < 3.0; k++);
    printf("%lf", k);
```
a) 2.000000
b) 4.000000
c) 3.000000
d) Run time error

9. What is the output of this C code?
```
int k;
for (k = -3; k < -5; k++)
    printf("Hello");
```
a) Hello
b) Infinite hello
c) Run time error
d) Nothing

10. What is the output of this C code?
```
int i = 0;
for (; ; ;)
    printf("In for
    loop\n");printf("After
    loop\n");
```
a) Compile time error
b) Infinite loop
c) After loop
d) Undefined behaviour

11. What is the output of this C code?
```
int i = 0;
for (i++; i == 1; i = 2)
    printf("In for loop ");
    printf("After
    loop\n");
```
a) In for loop after loop
b) After loop
c) Compile time error

d) Undefined behavior

12. What is the output of this C code?
    while ()

```
        printf("In while loop ");
    printf("After loop\n");
```
a) In while loop after loop
b) After loop
c) Compile time error
d) Infinite loop

13. What is the output of this C code?
```
    do
        printf("In while loop ");
    while (0);
    printf("After loop\n");
```
a) In while loop
b) In while loop after loop
c) After loop
d) Infinite loop

14. What is the output of this C code?
```
    int i = 0;
    do {
        i++;
        printf("In while loop\n");
    } while (i < 3);
}
```
a) In while
loopIn while
loop
In while loop
b) In while
loopIn while
loop
c) Depends on the compiler
d) Compile time error

15. How many times i value is checked in the below code?
```
    int i = 0;
    do {
        i++;
        printf("in while loop\n");
    } while (i < 3);
```
a) 2
b) 3
c) 4
d) 1

16. How many times i value is checked in the below code?
```
    int i = 0;
    while (i < 3)
        i++;
    printf("In while loop\n");
```

a) 2
b) 3
c) 4

d) 1

17. What is the output of this C code?
```
int i = 2;
do
{
    printf("Hi");
} while (i < 2)
```
a) Compile time error
b) Hi Hi
c) Hi
d) Varies

18. What is the output of this C code?
```
int i = 0;
while (++i)
{
    printf("H");
}
```
a) H
b) H is printed infinite times
c) Compile time error
d) Varies

19. What is the output of this C code?
```
int i = 0;
do
{
    printf("Hello");
} while (i != 0);
```
a) Nothing
b) H is printed infinite times
c) Hello
d) Run time error

20. What is the output of this C code?
```
int i = 0;
while (i < 10)
{
    i++;
    printf("hi\n");
    while (i < 8) {
        i++;
        printf("hello\n");
    }
}
```
a) Hi is printed 8 times, hello 7 times and then hi 2 times
b) Hi is printed 10 times, hello 7 times
c) Hi is printed once, hello 7 times
d) Hi is printed once, hello 7 times and then hi 2 times

21. What is the output of this C code?

```
int i = 0;
while (i = 0)
    printf("True\n")
    ;
printf("False\n");
```

a) True (infinite time)
b) True (1 time) False
c) False
d) Compiler dependent

22. What is the output of this C code?

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

a) 5, 5
b) 5, 10
c) 10, 10
d) Syntax error

23. Which loop is most suitable to first perform the operation and then test the condition?
a) for loop
b) while loop
c) do-while loop
d) None of the mentioned

24. What is the output of this C code?

```
int a = 0, i = 0, b;
for (i = 0;i < 5; i++)
{
    a++;
    if (i == 3)
        break;
}
printf("%d",a);
```

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

25. The keyword 'break' cannot be simply used within:
a) do-while
b) if-else
c) for
d) while

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

b) continue
c) return
d) None of the mentioned

27. What is the output of this C code?

```c
int i = 0, j = 0;
for (i = 0;i < 5; i++)
{
    for (j = 0;j < 4; j++)
    {
        if (i > 1)
            break;
    }
    printf("Hi \n");
}
```

a) Hi is printed 5 times
b) Hi is printed 9 times
c) Hi is printed 7 times
d) Hi is printed 4 times

28. What is the output of this C code?

```c
int i = 0;
int j = 0;
for (i = 0;i < 5; i++)
{
    for (j = 0;j < 4; j++)
    {
        if (i > 1)
            continue;
            printf("Hi
            \n");
    }
}
```

a) Hi is printed 9 times
b) Hi is printed 8 times
c) Hi is printed 7 times
d) Hi is printed 6 times

29. What is the output of this C code?

```c
int i = 0;
for (i = 0;i < 5; i++)
    if (i < 4)
    {
        printf("Hello");
        break;
    }
```

a) Hello is printed 5 times
b) Hello is printed 4 times
c) Hello
d) Hello is printed 3 times

30. What is the output of this C code?

```
int i = 0;
if (i == 0)
{
    printf("Hello");
    continue;
}
```
a) Hello is printed infinite times
b) Hello
c) Varies
d) Compile time error

31. What is the output of this C code?
```
int i = 0;
if (i == 0)
{
    printf("Hello");
    break;
}
```
a) Hello is printed infinite times
b) Hello
c) Varies
d) Compile time error

32. What is the output of this C code?
```
int i = 0;
do
{
    i++;
    if (i == 2)
        continue;
        printf("In while loop ");
} while (i < 2);
printf("%d\n", i);
```
a) In while loop 2
b) In while loop in while loop 3
c) In while loop 3
d) Infinite loop

33. What is the output of this C code?
```
int i = 0, j = 0;
for (i; i < 2; i++){
    for (j = 0; j < 3; j++){
        printf("1");
        break;
    }
    printf("2");
}
printf("after loop");
```
a) 12after loop

b) 1after loop
c) 1212after loop

d) 112after loop

34. What is the output of this C code?

```
int i = 0;
while (i < 2)
{
   if (i == 1)
      break;
   i++;
   if (i == 1)
      continue;
      printf("In while loop");
}
printf("After loop");
```
a) In while loopAfter loop
b) After loop
c) In while loopIn while loopAfter loop
d) In while loop

35. What is the output of this C code?

```
int i = 0;
char c = 'a';
while (i < 2){
   i++;
   switch (c)
   {case 'a':
      printf("%c ", c);
      break;
      break;
   }
}
printf("after loop\n");
```
a) a after loop
b) a a after loop
c) after loop
d) None of the mentioned

36. What is the output of this C code?

```
printf("before continue ");
continue;
printf("after continue\n");
```
a) Before continue after continue
b) Before continue
c) After continue
d) Compile time error

37. What is the output of the code given below?

```
printf("%d ", 1);
```

```
goto l1;
printf("%d ", 2);
l1:goto l2;
```

```
    printf("%d ", 3);
    l2:printf("%d ", 4);
```
a) 1 4
b) Compilation error
c) 1 2 4
d) 1 3 4

38. What is output of code given below?
```
    int i = 0, j = 0;
    while (i < 2)
    {
        l1 : i++;
        while (j < 3)
        {
            printf("Loop\n")
            ;goto l1;
        }
    }
```
a) Loop Loop
b) Compilation error
c) Loop Loop Loop Loop
d) Infinite Loop

39. What is the output of code given below?
```
    int i = 0, j = 0;
    while (l1: i < 2)
    {
        i++;
        while (j < 3)
        {
            printf("loop\n")
            ;goto l1;
        }
    }
```
a) loop loop
b) Compilation error
c) loop loop loop loop
d) Infinite loop

40. What is the output of the code given below?
```
    int i = 0, j = 0;
    l1: while (i < 2)
    {
        i++;
        while (j < 3)
        {
            printf("loop\n")
            ;goto l1;
        }
    }
```
a) loop loop

b) compilation error
c) oop loop loop loop
d) infinite loop

41. The output of the code below

```
isint i = 0;
if (i == 0)
{
    goto label;
}
label: printf("Hello");
```

a) Nothing
b) Error
c) Infinite Hello
d) Hello

42. The output of the code below

```
isint i = 0, k;
if (i == 0)
    goto label;
    for (k = 0;k < 3; k++)
    {
        printf("hi\n");
        label: k = printf("%03d", i);
    }
```

a) 0
b) hi hi hi 0 0 0
c) 0 hi hi hi 0 0 0
d) 0 0 0

43. The output of the code below

```
isint i = 0, k;
label: printf("%d", i);
if (i == 0)
    goto label;
```

a) 0
b) Infinite 0
c) Nothing
d) Error

44. What is the output of this C code?

```
int i = 5, k;
if (i == 0)
    goto label;
    label: printf("%d", i);
    printf("Hey");
```

a) 5
b) Hey
c) 5 Hey
d) Nothing

45. goto can be used to jump from main to within a function
a) true
b) false
c) Depends
d) Varies

46. What is the output of this C code?
```
    printf("%d ", 1);
    goto l1;
    printf("%d ", 2);
    l1:goto l2;
    printf("%d ", 3);
    l2:printf("%d ", 4);
```
a) 1 4
b) Compile time error
c) 1 2 4
d) 1 3 4

47. What is the output of this C code?
```
    printf("%d ", 1);
    l1:l2:
    printf("%d ", 2);
    printf("%d\n", 3);
```
a) Compile time error
b) 1 2 3
c) 1 2
d) 1 3

48. What is the output of this C code?
```
    int i = 0, j = 0;
    while (i < 2)
    {
       l1: i++;
       while (j < 3)
       {
          printf("loop\n")
          ;goto l1;
       }
    }
```
a) loop loop
b) Compile time error
c) loop loop loop loop
d) Infinite loop

49. What is the output of this C code?
```
    int i = 0, j = 0;
    while (l1: i < 2)
    {
       i++;
       while (j < 3)
```

{

```
            printf("loop\n")
            ;goto l1;
        }
    }
```
a) loop loop
b) Compile time error
c) loop loop loop loop
d) Infinite loop

50. What is the output of this C code?
```
    int i = 0, j = 0;
    l1: while (i < 2)
      {
          i++;
          while (j < 3)
          {
              printf("loop\n")
              ;goto l1;
          }
      }
```
a) loop loop
b) Compile time error
c) loop loop loop loop