



COMPUTER PARALLEL PREP

PRE-ENGINEERING

CHAPTER-12 (2ND YEAR)

- Q.1** What is the final value of i after execution the code?
`for(int i=1;i<5;i+=2)`
 (a) 5 (b) 6 **(c) 7** (d) 9
- Q.2** Repetition of statement up to fixed number of times or certain condition is satisfied is called.
 (a) Array (b) Label
 (c) String **(d) Loop**
- Q.3** What will be value of k after the execution of following statements?
`int c= -8;`
`do`
`{`
`c++;`
`}`
`while (c>=5);`
 (a) -8 (b) -6 **(c) -7** (d) -9
- Q.4** What is the output of the following code?
`int x=0, i;`
`for(i=0; i<3;i++)`
`x=x+1;`
`printf(“%d\n”, x);`
 (a) 1 **(b) 3** (c) 4 (d) 5
- Q.5** In which of the following loop condition comes before body of the loop?
 (a) do – while (b) for
while (d) Nested loop
- Q.6** What will be the output of the following program code?
`#include <stdio.h>`
`void main ()`
`{`
`int n;`
`n=1;`
`while (n<=10)`
`{`
`printf(“%d\n”, n);`
`n++;`
`}`
`}`
 (a) 10 9 8 7 6 5 4 3 2 1 **(b) 1 2 3 4 5 6 7 8 9 10**
 (c) 10 (d) 1
- Q.7** The body of while loop ends with.
(a) } (b) ((c) { (d) [
- Q.8** What will be the output of following code?
`int x;`
`for(x=0; x<=0; x++)`
`printf(“%d\n”, x);`
(a) 0 (b) 1 (c) 2 (d) 3



Q.9 What will be the output of the following program code?

```
#include <stdio.h>
void main()
{ int n;
  n=1;
  do{
    printf("%d\n", n);
    n++;
  } while(n<=5);
}
```

(a) 1 2 3 4 5

(b) 5 4 3 2 1

(c) 1 2 3 4 5 6 7 8 9

(d) Compile time error

Q.10 A special value that terminates the loop is called:

(a) Sentinel value

(b) End value

(c) Terminate value

(d) Control value

Q.11 Which of the following expression is executed only once in the for loop?

(a) Condition loop control

(b) Increment/Decrement

(c) Initialization

(d) Loop

Q.12 What will be the output of the following program code? (Hint input=5)

```
#include <stdio.h>
#include <conio.h>
void main()
{
  int i, n, f;
  f=1;
  printf("Please enter a number to find factorial : ");
  scanf("%d", &i);
  for(n=1; n<=i; n++)
    f *= n;
  printf(" The factorial of given number is = %d ", f);
  getch();
}
```

(a) 5

(b) 60

(c) 120

(d) Compile time error

Q.13 How many time will the following loop display ok?

```
for(int i=0; i<20; i++)
```

```
  printf ("ok");
```

(a) 20 times

(b) 21 times

(c) 1 time

(d) 0 time

Q.14 What will be the output of the following program code?

```
int a =10;
do {
  printf("%d",a +=5);
}
while(a<=12);
```

(a) 12

(b) 15

(c) 22

(d) Compiler error

Q.15 When the number of iterations of execution are known which is the best choice of programmer?

(a) for

(b) do – while

(c) while

(d) Sentinel loop



Q.16 Trace the output of the following

```
int k = 0;
while (k <= 5)
{
    printf("ok");
    k++;
}
```

- (a) ok (b) okokokokok
(c) okokokokokok (d) Compile time error

Q.17 Which is/are the mandatory part of for loop?

- (a) Loop control variable initialization (b) Condition
(c) Increment (d) Decrement

Q.18 The for loop expressions are enclosed in:

- (a) () (b) { } (c) [] (d) < >

Q.19 Write the output of the following code:

```
int num=3;
do{
    num*=2;
}while(num<48);
printf("%d\n", num);
```

- (a) =2 (b) 50 (c) <48 (d) 48

Q.20 What will be the output of following code?

```
void main (void)
{
    int i;
    for (i=1; i<=2; i++)
        printf ("%d", i*i);
}
```

- (a) 1 1 (b) 1 2 (c) 1 4 (d) 1 5

Q.21 A loop counter can be defines as:

- (a) The final value of a loop (b) A variable that counts loop iterations
(c) The initial value of a loop (d) The step value of a loop

Q.22 Which of the following is an example of unconditional transfer of control statement?

- (a) goto statement (b) If statement
(c) switch statement (d) if-else statement

Q.23 What will be the output of the following program segment?

```
int x=0;
while(++<5)
{
    x++;
    x=x*2; }
printf("%d",x);
```

- (a) 7 (b) 12
(c) 14 (d) 16



Q.24 What will be the output of following code?

```
main()
{
    int K<=15;
    while (K<10)
    {
        printf("%d", K);
        K++;
    }
}
```

(a) 1 2 3 4 5 6 7 8 9 10

(c) Logical error

(b) Runtime error

(d) Syntax error

Q.25 Trace output of the following code:

```
int x = 0, c;
for (c = 0; c < 3; c++)
    x += c;
printf ("%d", x);
```

(a) 0,1,2

(c) 0

(b) 1,2,3

(d) 3

Q.26 Trace the output of the following program segment:

```
int n=5;
while(n>5)
    n*=10;
printf("%d",n);
```

(a) 0

(c) 10

(b) 5

(d) 50

Q.27 Find output of the following code:

```
for (i=2; i<10; i=i+3)
    printf("%d \n", i);
```

(a) 2 5 8

(c) 2

(b) 8 6 4 2

(d) 10

Q.28 In while loop which part controls the loop iteration?

(a) Initialization

Condition

(b) Duration

(d) Updation

Q.29 Trace the output

```
int a, b=0;
for (a=1; a<=3; a++)
    printf("%d %d", a, b);
```

(a) 1 2 3

10 20 30

(b) 30 20 10

(d) 20 50 60

Q.30 Which of the following loop is also known as post-test loop?

(a) for loop

do---while loop

(b) while loop

(d) Nested loop