Computer Science - ICS Part 2 Computer Science Chapter 12 Short Questions Preparation

Q1. Predict the output from the following code.

```
Int n;
Clrscr ();
For (n = 5; n > = 1; n --)
Printf ("%d\n',n);
getch();
```

Ans 1: Output:

```
5
4
3
2
1
```

Q2. Define While Loop.

Ans 1: The while loop keeps repeating associated statements until the specified condition becomes false. This is useful where the programmer does not know in advance how many times the loop will be traversed.The dyntax o the while statement is

```
While (condition)
}
statements(S);
}
```

The condition in the while loop controls iteration. The statements which are executed when the given condition is true,from the body of the loop. If the condition is true, the body of the loop is executed . As soon as it becomes false, the loop terminates immediately.

Q3. What is the following code in for loop.

```
Int n=1;
While (n< =10);
{
Printf("%d\n",n);
N++;
}
```

Ans 1: Conversion:

```
Void main ( )
{
Int n;
For (n=1; n< =10; n++)
Printf(("%d\n",n);)
}
```

Q4. Write the syntax of do -while loop, both for single statement and for multiple statement .

Ans 1: Syntax for Single Statement and Multiple Statement :

```
Do
{
```

```
Statement(s);
} while (condition);
```

Q5. Write Output.

```
Int x= 5, y= 3;
Do
{
X= x *2;
Y = y+2;
}
While (y<7);
Printf("%d",x);
```

Ans 1: Output:

```
10
```

Q6. Write syntax of while loop, both for single statement and for multiple statement.

Ans 1: Syntax for Single Statement and Multiple Statements:

```
While (condition)
{
statements(s);
}
```

Q7. Write syntax of while loop, both for single statement and for multiple statement.

Ans 1: Syntax for Single Statement and Multiple Statements:

```
While (condition)
{
statements(s);
}
```

Q8. Determine output of the following code segment.

```
Int n = 1;
Do
{
Printf("Pakistan\n");
N++;
} while (n<=4);
```

Ans 1: Output:

```
Pakistan
Pakistan
Pakistan
Pakistan
```

Q9. Predict the output of the following piece of code .

```
Int I =1;
While.(i< =5)
{
Printf ("Pakistan");
I ++;
}
```

Ans 1: Output:

Pakistan
Pakistan
Pakistan
Pakistan
Pakistan
Pakistan

Q10. Rewrite the following code using do-while loop.

```
Int x= 10;
While (x> =1)
{ printf ("%d", x%2);
x--;
}
```

Ans 1: Rewrite in do-while loop:

```
Void main ( )
{
Int x = 10;
Do
{
Printf("%d\n",x%2);
X=x-1;
}while (n>=1);
}
```
