

**MCQ Questions:**

<b>Q1.</b>	<b>Choose the correct option for following questions. All the Questions are compulsory and carry equal marks</b>
1.	<p>What is the output of following code</p> <pre>#include &lt;stdio.h&gt; int main() {     int i = 0, j = 0;     while (j &lt; 10)     {         i++;         j++;     }     printf("%d,%d", i, j); }</pre>
Option A:	10
Option B:	5, 10
Option C:	10, 10
Option D:	10, 5
2.	<p>How many times Vidyalankar is printed?</p> <pre>int main() {     while(1)     {         printf("Vidyalankar");     }      return 0; }</pre>
Option A:	1 time
Option B:	Compilation error
Option C:	Infinite times
Option D:	Runtime error
3.	<p>What will be the output of the following code snippet?</p> <pre>#include &lt;stdio.h&gt; int main() {     int a = 3, b = 5;     int t = a;     a = b;     b = t;     printf("%d %d", a, b);     return 0; }</pre>
Option A:	5 3

Option B:	3 3
Option C:	5 5
Option D:	3 5
4.	What is the meaning of following declaration ? void sum (int, int);
Option A:	sum is function which takes int arguments
Option B:	sum is a function which takes two int arguments and returns void
Option C:	it will produce compilation error
Option D:	Definition of function sum()
5.	What is right way to Initialize array?
Option A:	int num[6] = { 2, 4, 12, 5, 45, 5 };
Option B:	int n[] = { 2, 4, 12, 5, 45, 5 };
Option C:	int n{6} = { 2, 4, 12 };
Option D:	int n(6) = { 2, 4, 12, 5, 45, 5 };
6.	What is the default return type if it is not specified in function definition?
Option A:	void
Option B:	Int
Option C:	float
Option D:	double
7	Which storage class is called as default storage class for local variables?
Option A:	Auto
Option B:	Register
Option C:	Static
Option D:	Extern
8	In the following initialization what is value of A[5] ? int A[10] = {9, 8, 7, 6, 5, 4, 3, 2, 1, 0};
Option A:	5
Option B:	4
Option C:	3
Option D:	2
9	What is the output for the following code ? int main() { int a=5,i; i = !(a > 10); printf("i=%d",i); return 0; }
Option A:	i=0

Option B:	i= 10
Option C:	i= 110
Option D:	i= 1
10	How many times will the following while-loop repeat, i.e., how many x are printed? <pre>int main() {     int i = 5;     while(i&gt; 0)     {         printf("x");         i--;     }     return 0; }</pre>
Option A:	2
Option B:	3
Option C:	4
Option D:	5
11	C programs are converted into machine language with the help of -----.
Option A:	an editor
Option B:	an Assembler
Option C:	a compiler
Option D:	an operating system
12	What is the output of the program? <pre>int f() {     printf("\n***");     return 2; } int main() {     float a = f();     printf("%f",a);     return 0; }</pre>
Option A:	2.0
Option B:	2.0***
Option C:	***2.0
Option D:	***
13	What will be the output of the following C code?

	<pre>#include &lt;stdio.h&gt; void main() {     int x = 5;     if (x == 5)         printf("hi\n");     else         printf("how are u\n");     printf("hello\n"); }</pre>
Option A:	Hi
Option B:	Hi hello
Option C:	how are you hello
Option D:	how are you
14	<p>What will be the output of the following C code?</p> <pre>#include &lt;stdio.h&gt; int main() {     int x = 0;     if (x == 1)         if (x == 0)             printf("inside if\n");         else             printf("inside else if\n");     else         printf("inside else\n"); }</pre>
Option A:	inside if inside else
Option B:	inside else if
Option C:	inside if
Option D:	inside else
15	<p>What will be the output of the following program?</p> <pre>#include &lt;string.h&gt; int main() {     char str[] = "Programming";     printf("%d", strlen(str));     return 0; }</pre>
Option A:	11

Option B:	9
Option C:	10
Option D:	12

### Descriptive Questions

	<b>Solve the following</b>
<b>A</b>	Write a program to check if given number is palindrome or not.
<b>B</b>	Write a program to display prime numbers between 1 to 1000.
<b>C</b>	Explain continue and break statements with the help of suitable examples.
<b>D</b>	Explain storage classes
<b>E</b>	Draw flowchart for finding roots of quadratic equation
<b>F</b>	Compare Structure and Union
<b>G</b>	Explain any 4 functions from string.h header file with suitable examples.
<b>H</b>	Explain recursive function. Write a program to find factorial of a number using recursion.
<b>I</b>	Write a program to determine whether a string is palindrome or not
<b>J</b>	Give difference between call by value and call by reference
<b>K</b>	Implement a program to find transpose of a matrix.
<b>L</b>	What are the tokens of c language explain with example
<b>M</b>	Explain nested structures with examples.