

University of Mumbai

Program: _First Year (All Branches) Engineering - SEM-II

Curriculum Scheme: Rev 2019

C-Programming

Question Bank

Q1. Choose the correct option for following questions. All the Questions are compulsory and carry equal marks	
1.	Which storage class is called as default storage class ?
Option A:	auto
Option B:	register
Option C:	static
Option D:	extern
2.	What inbuilt function should be used to return a value rounded up to the next higher integer ?
Option A:	floor
Option B:	malloc
Option C:	puts
Option D:	ceil
3.	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
4.	What is the output for the following code ? <pre>int main() { int a=5,i; i!=a >10; printf("i=%d",i); return 0; }</pre>
Option A:	i=0
Option B:	i=10
Option C:	i=110
Option D:	i=1
5.	How many times will the following while-loop repeat, i.e., how many x are printed? <pre>int main() { int i = 5; while(i> 0) { printf("x"); i--; } return 0; }</pre>
Option A:	2

Option B:	3
Option C:	4
Option D:	5
6.	Which among the following is an exit controlled loop ?
Option A:	for
Option B:	while
Option C:	do... while
Option D:	if...else
7	What is another name for 1-D arrays ?
Option A:	Linear arrays
Option B:	Lists
Option C:	Horizontal array
Option D:	Vertical array
8	Which of the following operators takes only integer operands?
Option A:	+
Option B:	*
Option C:	/
Option D:	%
9	What is value of a in following expression? int a = 10 + 4.867;
Option A:	a=10
Option B:	a=14.867
Option C:	a=14
Option D:	a=4
10	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
11	What is the output of the program.? <pre>int main() { float a = 45; printf("%f", a); return 0; }</pre>
Option A:	45
Option B:	45.0
Option C:	45.000000
Option D:	0.000000
12	Which among the following is a Conditional Operator in C ?
Option A:	?:
Option B:	:?
Option C:	<=
Option D:	>=

13	What is the output of the C statement. <pre>int main() { int a=0; a = 5<2 ? 4 : 3; printf("%d",a); return 0; }</pre>
Option A:	4
Option B:	3
Option C:	5
Option D:	2
14	Recursion is a process in which a function calls _____.
Option A:	itself
Option B:	another function
Option C:	main() function
Option D:	sub program
15	What is the Format specifier used to print a character in C.?
Option A:	%s
Option B:	%c
Option C:	%C
Option D:	%w
16	Which of the following is not a relational operator?
Option A:	>=
Option B:	>>
Option C:	==
Option D:	!=
17	Which one of the following is a valid C expression?
Option A:	int my_number=1000;
Option B:	int my-number=1000;
Option C:	int my@number=1000;
Option D:	int @mynumber=1000;
18	What will be the output of the following C code? <pre>#include <stdio.h> int main() { int a = 1, b = 1, c; c = a++ + b; printf("a=%d, b=%d", a, b); }</pre>
Option A:	a=1, b=1
Option B:	a=2, b=1
Option C:	a=2, b=2
Option D:	a=1, b=2
19	What will be the output of the following C code?

	<pre>#include <stdio.h> 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
20	<p>What will be the output of the following C code? (Assuming that we have entered the value 1 in the standard input).</p> <pre>#include <stdio.h> void main() { int ch; printf("enter a value between 1 to 2:"); scanf("%d", &ch); switch (ch) { case 1: printf("1\n"); break; printf("hi"); default: printf("2\n"); } }</pre>
Option A:	1
Option B:	1 hi
Option C:	hi
Option D:	2
21	<p>What will be the output of the following C code?</p> <pre>#include <stdio.h> int main() { int i = 0; while (i = 0) printf("True\n"); printf("False\n"); }</pre>
Option A:	True
Option B:	False
Option C:	True False
Option D:	True (Infinite Times)

22	<p>What will be the output of the following C code?</p> <pre>#include <stdio.h> 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
23	<p>The value obtained in the function is given back to the main program by using which keyword?</p>
Option A:	new
Option B:	return
Option C:	volatile
Option D:	static
24	<p>What will be the output of the following C code?</p> <pre>#include <stdio.h> void main() { m(); m(); } void m() { static int x = 5; x++; printf("%d", x); }</pre>
Option A:	5 5
Option B:	5 6
Option C:	6 6
Option D:	6 7
25	An array Index starts with.?
Option A:	0
Option B:	1
Option C:	-1
Option D:	2
26	<p>What will be the output of the following C code?</p> <pre>#include <stdio.h> void main() {</pre>

	<pre>char string[]={'E','X','A','M','\0'}; printf("%s",string); }</pre>
Option A:	E
Option B:	EXAM0
Option C:	EXAM\0
Option D:	EXAM
27	Which one of the following is NOT an identifier?
Option A:	_cprogram
Option B:	c_program
Option C:	20cprogram
Option D:	cprogram20
28	What will be the output of the following program? <pre>int main() { int i=9; while(i++<10) printf("%d\n",i); return 0; }</pre>
Option A:	9
Option B:	10
Option C:	1
Option D:	11
29	What will be the output of the following program? <pre>int main() { int a,b,c,d,e,f,g,h,k; a=8, b=4, c=2, d=1, e=5, f=20; printf("%d\n",a+b-(c+d)*3%e+f/9); return 0; }</pre>
Option A:	10
Option B:	9
Option C:	8
Option D:	20
30	If a is a variable initialized to 1, how many times will the following loop be executed? <pre>while((a>0)&&(a<25)) { loopbody a++; }</pre>
Option A:	25
Option B:	24
Option C:	20
Option D:	26
31	In an array a[2] [2] = { 10,20,30,40,50,60 }, then a[0] [1] is which element?
Option A:	10

	Option B: 20
	Option C: 30
	Option D: 40
32	<p>What will be the output of the following program?</p> <pre>int main() { int a = 500, b = 100, c; if(!a >= 400) b = 300; else b=b+++b*a/b; c = 10; c=b<<1; c=c>>b+1; printf("b = %d c = %d\n", b, c); return 0; }</pre>
	Option A: B=600, c=3
	Option B: B=600, c=2
	Option C: B=600, c=1
	Option D: B=600, c=0
33	Which bitwise operator is used for turning off a particular bit in a number?
	Option A:
	Option B: ^
	Option C: &
	Option D: ~
34	<p>What will be the output of the following program?</p> <pre>int i; int goodday(); int main() { while(i) { main(); goodday(); i++; } printf("Exam\n"); return 0; } int goodday() { printf("Goodday"); }</pre>
	Option A: Goodday
	Option B: Exam Goodday
	Option C: Exam
	Option D: Goodday Exam

1.	Write a program to read Title, Author and Price of 5 books using array of structures. Display the records in ascending order of Price.
2.	Implement a program to perform addition of two matrices.
3.	Write a program to check whether a word is palindrome or not..
4.	What are bitwise and logical operators in C ?
5.	What are strings and give any four string related functions.
6.	Implement a program to find transpose of a matrix.
7.	Write a C program to find LCM of two numbers using recursion.
8.	Distinguish between structure and union.
9.	What are the tokens of c language explain with example.
10.	Explain while loop with example.
11.	Write a program to print Fibonacci series.
12.	Write a program using recursion to find factorial of a number.
13.	Explain nested structures with examples.
14.	Write a C program to perform multiplication of two matrices.
15.	Explain conditional operator used in C language with proper example.
16.	Explain the term recursion. Write a program to find the power of x raised to n that is: x^n , using recursive function.
17.	Explain following functions with example sqrt(), fabs(), pow(), ceil(), floor()
18.	Write a program to print the following pattern. A B B C C C D D D D
19.	Write a program to find largest element of an 1D array.
20.	Write a Program to calculate and display sum of all the elements of the matrix.
21.	Define a structure called player with data members as player name, team name, batting average. Store and display the information of at least 10 players.
22.	Write a program to accept three numbers from the user and display the greatest of three using the conditional operator.
23.	Write a program to display the following for the user specified number of lines. * ** *** **** ***** *****
24.	Write a program to check if the entered number is prime number or not.
25.	Write a program in C to find out the power of x raised to n (x^n), using non-recursive function.
26.	Write a program in C to find the smallest of N elements using an array.
27.	Write a program in C to find the reverse of a given string without using inbuilt string function.
28.	Write a program to accept a set of 10 numbers and print the numbers using arrays.

	Find the average of these integers.
29.	Write a program to store and display at least 10 records of the name, roll number and fees of a student using structure.
30.	Explain five arithmetic operators used in C language with proper examples.
31.	Explain String function for the following operations with example. i) Copy string from source to destination. ii) Merging of two strings.
32.	Explain the term recursion. Write a program to find summation of n numbers using recursion.
33.	Write a program to print the following pattern. (Note- Not only 4 lines, it should print N lines taken from the user.) A B B C C C D D D D
34.	Write a C-program to create array of structures in order to store details of almost 100 books. The book details are book name, book price, book page number and book author name.
35.	Write a program that will accept two-dimensional square matrix and find the sum of diagonal elements. (Note- sum of diagonal elements should be calculated for both sides).
36.	Explain the use of following in-built functions of C-language by giving suitable programming examples and also mention their respective header files in which they are defined. i) getch() ii) pow() iii) ceil() iv) puts() v) getchar()
37.	What are the different ways of parameter passing to a function? Explain with examples.
38.	Write a C program to find GCD of two numbers using recursion.
39.	Write a C program to implement month name by accepting month number from user. (Use switch case)
40.	Write a C program to accept 10 integers from the user and arrange them in ascending order and display them.
41.	Give the difference between entry and exit controlled loop with an example.
42.	Differentiate between arrays and structures.