



22/12/22

**K. J. Somaiya Institute of Engineering and Information Technology, Sion, Mumbai-22
(Autonomous College Affiliated to University of Mumbai)**

End Semester Exam

Nov/Dec 2022

Program: B. Tech (Computer Engineering)

Examination: FY Semester: II

Course Code: 1UBSC205

Course Name: Computer Programming

Duration: 03 Hours

Max. Marks: 60

Instructions:

- (1) All questions are compulsory.
- (2) Draw neat diagrams wherever applicable.
- (3) Assume suitable data, if necessary.

Q. No.	Question	Max. Marks	CO	BT Level
Q 1	Solve any six questions out of eight:	12		
i)	Write the output of the following program. int x=10,y,*ip; ip = &x; y = (*ip)++; printf("%d\n",y); printf("%d\n",ip);	02	CO6	E
ii)	What are different storage classes? Give names.	02	CO3	U
iii)a)	Explain continue statement with example.	02	CO2	U
iv)	What is a header file in C? Explain with an example.	02	CO1	U
v)	Write a for loop statement for addition of n numbers	02	CO2	Ap
vi)	Give two significant differences between structure and union.	02	CO5	Ap
vii)	What is the meaning of following statement in C int *p;	02	CO6	Ap
viii)	Write one example of declaration of one and two dimensional array.	02	CO4	U
Q.2	Solve any four questions out of six.	16		
i)	What is algorithm and flowchart? Draw flowchart to display Fibonacci Series.	04	CO1	U
ii)	Differentiate between switch, else if ladder and nested if else statement.	04	CO2	Ap
iii)	What is relation between arrays and pointers? Explain with an example	04	CO6	E
iv)	Write a program to find reverse of a string without using standard library function.	04	CO4	Ap
v)	Give the difference between structure and union.	04	CO5	U
vi)	Explain call by reference and call by value to a function with example.	04	CO3	U



Q.3	Solve any two questions out of three.	16		
i)	What is precedence and associativity of operators. Draw the precedence and associativity table	08	CO1	U
ii)	Write a program to swap two numbers using pointers.	08	CO6	Ap
iii)	What is recursion? Write a program to find factorial of a number using recursion	08	CO3	Ap
Q.4	Solve any two questions out of three.	16		
i)	A sport club of cricket needs to maintain data about players. Description of it is given below. Club wants to maintain player name, age, no. of matches played, no. of runs, and average. Write a program to accept and display the data in tabular format.	08	CO5	Ap
ii)	Write a program to print the following pattern in C A B B C C C D D D D E E E E E	08	CO2	Ap
iii)	Write a program to search an element in an array.	08	CO4	Ap