Date 18/07/22

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

End Semester Exam

May 2022 – June 2022

B.Tech Program: Basic Science and Humanities

Examination: FY Semester: II

Course Code: 1UBSC105 and Course Name: C 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.

		Max. Marks	СО	BT level
Q 1	Solve any six questions out of eight:	12		100 %
i)	Draw flowchart to find largest of Three Numbers.	2	COI	U
ii)	Explain Logical AND Operator. Give Syntax.	2	CO1	U
iii)	Explain nested if and else if ladder statement with syntax.	2	CO2	U
iv)	Explain Role of Continue Statements with help of Example.	2	CO2	U
v)	What are actual parameters and formal parameters?	2	CO3	U
vi)	Explain the declaration and initialization of two-dimensional arrays with an example.	2	CO4	U
vii)	Explain any one string library functions with syntax and example.	2	CO4	U
viii)	Explain the C syntax of structure declaration with example.	2	CO5	U
Q.2	Solve any four questions out of six.	16	spu je	
)	Write a program in C to print the numbers from 1 to 9 and their Cubes.	4	CO1	Apply
i)	Difference with example While and Do While Loop.	4	CO2	Apply

iii)	Write a C program that takes operator '+', '- ', '* ', '/ ', and two operands. Perform using switch statement.	4	CO2	Apply
iv)	Write a program using function to find sum of digits of a given number.	4	CO3	Apply
v)	Write an algorithm and develor a C program that reads N integer numbers from array and arrange them in ascending order.	4	CO4	Apply
vi)	Differentiate between structures and unions.	4	CO5	Apply
Q.3	Solve any two questions out of three.	16	710 -	12.00 M
i)	Write algorithm and prepare flowchart for to read the five subjects marks of student and classify them into grades. Distinction - <=75, First class 75>Grade>=60, Second Class - 60>grade>=50, Pass Class - 50>grade>=40 FAIL - grade<40	8	CO1	Apply
ii)	Write a program to generate pattern. P PQ PQR PQRS	8	CO2	Apply
iii)	Write a program in C++ to calculate the sum of the series $(1*1) + (2*2) + (3*3) + (4*4) + (5*5) + + (11*n)$.	8	CO2	Apply -
Q.4	Solve any two questions out of three.	16		
i)	Write a program to generate Fibonacci Series using recursion in C. (Fibonacci Series is 0 1 1 2 3 5 .8 13 21 34 55 89 144 233 377)	8	CO3	Apply
ii)	WAP for display sum of diagonal and non-diagonal elements of matrix.	8	CO4	Apply
iii)	Write a program using structure for display Cricketer Information like name, Total no. of matches, Total Run, Batting Average, Total wicket etc.	8	CO5	Apply