

ROLL NO. _____

ENROLLMENT NO. _____

JAMIA HAMDARD
School of Engineering Sciences and Technology
Department of Computer Science & Engineering

Odd Semester Examination (Backlog) - 2022

Subject: Introduction to 'C' Programming

Subject Code: BCA - 101

TIME: 3 Hours

MAX. MARKS: 75

Note:-

- *Do not write anything on paper except Roll No. & Enrollment No.*
- *Please follow proper numbering while answering the questions.*

SECTION – A (35 Marks)

❖ Attempt ALL questions. Each question is of 5 marks.

Q. No.	Questions	CO*	BL*
1.	What is structured programming? Explain structure of a C-Program using block diagram.	CO1	L1, L2
2.	Write a program to print the following pattern on the monitor using while loop: A A B A A B C B A	CO3	L3, L6
3.	Write a program to concatenate two strings without using library function.	CO3	L3, L5
4.	Draw a flow chart to convert a decimal number into binary number.	CO2	L2, L3
5.	Differentiate between for, while and do-while loops with proper programming examples.	CO1	L1, L2
6.	Describe the relational operators used in C with the help of suitable examples.	CO2	L2, L3
7.	Differentiate between structure and union with suitable programming example.	CO1	L1, L2

P.T.O.

SECTION – B (40 Marks)

❖ Attempt any **FOUR** questions. Each question is of **10 marks**.

Q. No.	Questions	CO*	BL*
1.	What is the difference between array and string? Write a program to remove the negative elements in an array.	CO2	L1, L2, L3
2.	Explain the following terms with example: a) Function Call b) Calling Function c) Called Function	CO1	L1, L2, L3
3.	(a) Consider the 11 x 15 matrix array A. Suppose Base address of A = 21 and there are w=6 words per memory cell. Find the address of A [9, 9] using row major order representations of arrays. (b) Write a program to access array elements using pointer.	CO3	L3, L6
4.	Write a program to sort the following numbers using any algorithm. Also give all iterations. 75, 51, 27, 35, 10, 49, 9, 62, 80, 19, 94	CO4	L3, L4, L5
5.	Write a menu driven program for addition, subtraction, multiplication, and division using switch and case.	CO5	L3, L5, L6
6.	Write short notes on:– (a) File handling (b) Storage Classes	CO2	L2, L3

CO* - Course Outcomes from Syllabus, BL* - Bloom's Taxonomy Levels (1: Remembering, 2: Understanding, 3: Applying, 4: Analyzing, 5: Evaluating, 6: Creating)

END