

INDIRA UNIVERSITY, PUNE

SCHOOL OF INFORMATION TECHNOLOGY- BCA

Term End Examination (2025 Pattern) April- May – 2026- Semester – II

Course Name: Advanced 'C' Programming
Course Code: 25BCA201T

Max. Marks: 25
Time: 1 Hr. 30 Minutes

Instructions

- All Questions are Compulsory.

Q1.	Attempt any 5 out of 7. (1 Mark each) a. State function pointer. b. Define dynamic memory allocation. c. Identify the parameters used in main() for command line arguments. d. Define a union in C. e. State a self-referential structure. f. Define nested macro. g. Name the types of files in C.	(5 Marks)	CO1
Q2.	Attempt any 2 out of 4. (5 marks each) a. Write a program to find largest element in an array using pointer b. Create a C program to count the number of vowels in a given string, without using any built in function. c. Design and develop a program to accept and display information of n players (pid, name,score) using union. d. Construct a program to accept a filename and count the number of words, lines and characters in the file.	(10 Marks)	CO6
Q.3	Attempt all questions- a) Demonstrate the use of an array of pointers to access and manage data with suitable examples. (5 Marks) b) Demonstrate the use of any five standard string library functions with suitable examples. (5 Marks) OR		CO3
Q.3	Attempt all questions - a) Demonstrate declaration, definition, and accessing of structure members and apply the concept to show memory sharing with example. (5 Marks) b) Differentiate between macro and function with example. (5 Marks)		CO3
