

INDIRA UNIVERSITY, PUNE

SCHOOL OF INFORMATION TECHNOLOGY -BSC CYS

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

Course Name: Advanced 'C' Programming
Course Code: 25CYS202T

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

Instructions

- All Questions are compulsory

Q1.	Attempt any 5 out of 7. (1 Mark each) a) What is wild pointer in C? b) What is the use of strcat () function? c) Define Structure. d) What are streams in C file handling? e) How to declare a string variable? f) Which function is used to release the memory which is allocated dynamically? g) What is the use of typedef?	(5 marks)	CO 1
Q2.	Attempt any 2 out of 4. (5 marks each) a) What do you mean by dynamic memory allocation? Explain the following dynamic memory allocation functions with example: (i) malloc() (ii) calloc() (iii) realloc() (iv) free() b) Write note on command line arguments. c) What is binary file? Explain read and write functions of binary file with example. d) What are the main types of preprocessor directives, explain any one of them with example?	(10 marks)	CO 2
Q.3	Attempt all questions. (5 marks each) a) Explain the concept of array of structure with example. b) What is the output of the following C program? Justify your answer with proper explanation <pre>#include<stdio.h> int main() { int arr[] = {1, 2, 3, 4}; int *p = arr; printf("%d ", *p);</pre>	(10 marks)	CO 3

	<pre> p++; printf("%d ", *p); printf("%d ", *(p+1)); return 0; } </pre>	
Q.3	OR Attempt all questions –(5 marks each) (10 marks) a) Write a program to create a structure student (sid, sname, marks). Accept details of n students and display it in summary format along with the percentage. b) Write a program to read all the contents from a.txt file and store the vowels and consonants into two different files named as vowel.txt and consonants.txt.	CO 3
