

Shirpur Education Society's

R. C. PATEL INSTITUTE OF TECHNOLOGY, SHIRPUR



15

An Autonomous Institute
(Affiliated to Dr. Babasaheb Ambedkar Technological University, Lonere)

आर. सी. पटेल इन्स्टिट्यूट ऑफ टेक्नॉलॉजी, शिरपूर

Programme: B.TECH (AIML)/B.TECH (COMP)/B.TECH (DATA SCI.)/B.TECH (EXTC)/B.TECH (ELECT)/
B.TECH (CIVIL)/B.TECH (MECH)

Year: I/Semester I (Exam Year: 2023-2024)

Subject: Structured Programming using C

Date: 11 Mar 2024 Time: 08:00 am - 10:00 am (02:00 Hrs.)

Max Marks: 60

RE END SEMESTER EXAMINATION SEM-I (2023-2024)

Instructions:

2.

- 1. This question paper contains 2 pages
- 2. All Questions are Compulsory.
- 3. Figure in right hand side indicates full marks.
- 4. Answer to each new question to be started on a fresh page.
- 5. Assume suitable data wherever required, but justify it.
- 6. Support your answers with neat labelled diagrams, wherever necessary.

	15
A.	10
I. Implement a C program to find the sum of individual digits of a 3-digit number.	10
OR	
II. If the Quadratic equation (ax ² +bx+c=0) is given to you identify which statement you will use to find the roots of quadratic equation. Write and explain the syntax of statement. Write a psuedo code for solution.	10
B. Write a program to display whether a person can vote for an election or not based on his age using ternary operator.	5
(Note: If the age of a person is above 18 then display Welcome to voting System else display Invalid User)	

A. 1. Explain following terms:	10
1. 1. Character Set, 2. Identifiers, 3. Keywords, 4. Data types, 5. Variables.	
B. (HDBM) HDE BYLLIVID) HDETE	5
	3
I. Write an algorithm and draw a flowchart to find entered number is even or odd number.	5
Street Programming using C. 2024 ———————————————————————————————————	
II. i. Write a short note on Binary number System.	5
ii.Convert decimal number 128 ₁₀ to binary.	
3.	15
	terap ain 13.
A. Streetsgaar Den en e	10
I. Write a program in C to delete an element at a desired position from an array. The elements	10
of the array are taken from the user.	10
OR	
II. Write a C program to count the number of characters, words and lines in a given text.	
the families of characters, words and lines in a given text.	10
B. Implement a C program to compare two strings using strcmp() function.	5
4 Country regions a to anatomic metric of the order of the country of O a resident	
	15
A. Define recursion. Write a recursive C function to find a Fibonacci series till a given number.	10
B. Indicate the record of quadratic equation. Write and explana the system of statement, write in	5
I. Discuss NULL pointer along with suitable example.	
. Same and contample.	5
č ——— oga sist do basud dos so ———————————————————————————————	
II Write a program to Gold a land of	
II. Write a program to find the length of a string using pointers.	5