



R22 Regulation

TKR COLLEGE OF ENGINEERING AND TECHNOLOGY
(Autonomous, Accredited by NAAC with 'A' Grade)

Subject code:4B1AM

B.Tech I Semester Supplementary Examinations, September 2023

PROBLEM SOLVING USING C PROGRAMMING INFORMATION TECHNOLOGY

Maximum Marks: 60

Date:04.10.2023 Duration: 3 hours

- Note:
1. This question paper contains two parts A and B.
 2. Part A is compulsory which carries 10 marks. Answer all questions in Part A.
 3. Part B consists of 5 Units. Answer any one full question from each unit.
 4. Each question carries 10 marks and may have a, b, c, d as sub questions.

Part-A

All the following questions carry equal marks

(10x1M=10 Marks)

1. a Define Algorithm.
b What is mean by data types?
c Write the syntax of Iterative statement.
d Write syntax on two dimensional Arrays.
e Why Recursion?
f Define function.
g Define Pointer.
h How typedef statement is used?
i What is conditional compilation?
j Define Graphics.

Part-B

Answer All the following questions.

(5X10M=50Marks)

- 2 a) What are variables and constants? What are the rules for declaring the variables? 5M
b) What are formatted and unformatted functions? 5M
OR
- 3 What are bitwise and logical operators? Explain about bitwise and logical operators with suitable programming example. 10M
- 4 Write a program to implement matrix multiplication. 10M
OR
- 5 Define Array and explain types of arrays with example. 10M
- 6 What is function and explain different parameters passing methods with example. 10M
OR
- 7 Explain String Handling Functions with examples. 10M
- 8 a) What are the advantages and disadvantages of using pointers? 5M
b) Define structure. Give the declaration and initialization of structure. 5M

OR

- 9 Write a program using structure to display following information for each student name, Roll-number, mark1, mark2, mark3, total, average? 10M
- 10 a) Explain different types of graphic functions. 5M
b) Discuss the need of preprocessor directives. 5M
- OR
- 11 What is different file operation and demonstrate them with an example program. 10M