



R20 Regulation

Subject Code: 3E2AC

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

B.Tech II Semester Supplementary Examinations, September 2023

C Programming for problem solving

(Common to CE & EEE)

Maximum Marks: 70

Date: 22.09.2023 Duration: 3 hours

- Note:
1. This question paper contains two parts A and B.
 2. Part A is compulsory which carries 20 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

(10x2M=20 Marks)

All the following questions carry equal marks

- 1 List the no of data types.
- 2 Explain conditional operator with syntax.
- 3 List out Different storage classes.
- 4 Define an Array and List out its types.
- 5 Define pointer with example.
- 6 Give the example for string concatenation.
- 7 Define a structure? Write the syntax for declaration of a structure?
- 8 List out the different memory allocation functions and mention its usage.
- 9 Differentiate between binary file and text file.
- 10 What is the use of fseek() function?

Part-B

(5X10M=50Marks)

Answer All the following questions.

- 11 What is meant by a control statement? What are the different types of selection statements available in C? [10]
- OR
- 12 Discuss increment and decrement operators available in C and the rules associated with them. [10]
- 13 Define an array? Explain about different types of arrays in C with an example. [10]
- OR
- 14 Write a C-program to implement binary search on array of integers. [10]
- 15 Explain string handling functions with an Example. [10]
- OR
- 16 Explain pointers to functions in detail. [10]
- 17 Differentiate between structure and union with example. [10]
- OR
- 18 Is it possible to nest the structure? Explain with example. [10]
- 19 Write a C program that reads contents of a file and display them in capital letters if they are alphabets. [10]
- OR
- 20 Explain about the file positioning functions in C with example. [10]

