



ACE
Engineering College
(with a Difference in Excellence)

An AUTONOMOUS Institution

Question Paper Code:

CS203ES

ACE-R20

Semester End Examination
I B. Tech- II Semester Supply - JUNE-2022
Programming for problem Solving
(Common to EEE,CSE,IT,CSD)

Time: 3 Hours

Max. Marks: 70

H. T. No									
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Answer any 5 Questions out of 8 Questions from the following

Q.No	Question	Marks
1. a)	Write about Storage Classes.	6
b)	What is an Algorithm? Write Pseudo code with example.	8
2. a)	Explain bitwise operators with applications.	6
b)	Explain Iterative statements available in C Language.	8
3. a)	Explain simple and formatted Input/Output operations of C Language.	9
b)	Explain creation, reading and writing of binary files.	5
4. a)	What is String? Explain built in string handling functions of C.	10
b)	Explain random access of data from files.	4
5. a)	What is Structure? Explain Array of Structures.	8
b)	What is Pointer? Explain the usage of pointers in self referential structures.	6
6. a)	Explain call-by-value and call-by-reference parameter passing methods.	8
b)	Explain Recursion using Fibonacci series.	6
7. a)	Write an algorithm for finding roots of a quadratic equation.	7
b)	Explain Merge Sort algorithm.	7
8. a)	Explain Queues using arrays.	8
b)	List and Explain standard C Functions and Libraries.	6