ACE
Engineering College
(with a Difference in Excellence)
An AUTONOMOUS Institution

Question Paper Code: | CS103ES | ACE-R20

Semester End Examination
I B. Tech- I Semester Regular/ Supply - JUNE-2022
Programming for problem Solving
(Common to CE,ME,ECE, CSM, CSO)

Time: 3 Hours Max. Marks: 70

H. T. No

Answer any 5 Questions out of 8 Questions from the following

Q.No	Question	Marks
1. a)	What is Memory? Explain different types of Memories.	5
b)	Explain Alorithm and Flow chart with example.	9
2. a)	Explain operators available in C Language with precedence and associativity.	7
b)	Explain Conditional statements available in C Lanuage.	7
3. a)	What is an Array? Write a program to read and print 5 subject marks of 10 students.	7
b)	What is Pointer? Explain, How to use pointers in structures?	7
4. a)	Explain file positioning functions.	8
b)	List and Explain Preprocessor Commands.	6
5. a)	Write a program to print first n prime numbers.	6
b)	Write a program to demonstrate string handling operations.	8
6. a)	What is Function? Explain various parameter passing mechanisms.	8
b)	Explain Recursion using factorial of a number.	6
7. a)	Write an algorithm to find maximum and minimum number from a given array.	6
b)	Explain Binary search algorithm with example.	8
8. a)	Explain Dynamic memory allocation and deallocation methods.	6
b)	Explain various operations on Stack.	8