

ADITYA ENGINEERING COLLEGE (A)

B.Tech – I Semester End Examinations Supplementary (AR20) – AUG 2022

PROGRAMMING FOR PROBLEM SOLVING USING C

(Common to EEE, ECE, CSE, IT & AIML)

Time: 3 hours**Max. Marks: 70****Answer ONE question from each unit****All Questions Carry Equal Marks****All parts of the questions must be answered at one place only****UNIT – I**

- 1 a Discuss in detail about high-level and low level languages with examples. K2 CO1 [7M]
b Explain Input/Output statements in C with examples. K2 CO1 [7M]

OR

- 2 a Explain the classification of computer software. K2 CO1 [7M]
b Compare and contrast variable and a constant. What are integer and floating point constants? K2 CO1 [7M]

UNIT – II

- 3 a Explain about various operations on arrays. K2 CO2 [7M]
b Write a C program to print the Fibonacci series. K3 CO2 [7M]

OR

- 4 a Illustrate the concept of nested loops with an example. K3 CO2 [7M]
b Write a C program to add the elements in an array. K3 CO2 [7M]

UNIT – III

- 5 a Explain how parameters are passed to functions in detail. K2 CO3 [7M]
b Write a C program to concatenate two strings without using Library functions. K3 CO3 [7M]

OR

- 6 a Distinguish between recursive and non-recursive functions. K2 CO3 [7M]
b Write a C program to find whether a number is prime or not using functions. K3 CO3 [7M]

UNIT – IV

- 7 a Write short notes on: i) Generic pointers ii) Pointers and strings K2 CO4 [7M]
b Explain the concept of pointers to pointers with an example. K2 CO4 [7M]

OR

- 8 a Write short notes on: i) Array of pointers ii) Draw backs of pointers K2 CO4 [7M]
b Write a program to count vowels and consonants in a string using pointer. K3 CO4 [7M]

UNIT – V

- 9 a Illustrate the concept of nested structures with an example. K3 CO5 [7M]
b Write short notes on: i) typedef keyword ii) union. K2 CO5 [7M]

OR

- 10 a Discuss about enumerated data type in detail. K2 CO5 [7M]
b Write a program to read and count the number of words in a text file. K3 CO5 [7M]
