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**GAYATRI VIDYA PARISHAD COLLEGE OF ENGINEERING FOR WOMEN**

(AUTONOMOUS)

(Affiliated to Andhra University, Visakhapatnam)

I. B.Tech. - II Semester Regular Examinations, June / July – 2025**PROBLEM SOLVING USING C**

(Common to EEE)

1. All questions carry equal marks
2. Must answer all parts of the question at one place

Time: 3Hrs.**Max Marks: 70****UNIT-I**

1. a. Outline and Explain different data types with an example for each. [7M]
b. Evaluate the following expression $a*b+c/d-e$ and describe the concept of arithmetic precedence and associativity. [7M]

OR

2. a. With suitable example explain the basic structure of C Program. [7M]
b. What do you mean by type conversions? Explain different type conversions with an example for each. [7M]

UNIT-II

3. a. List and explain decision making using different if statements. [7M]
b. Write a C program to copy one string to another with and without using String manipulation functions. [7M]

OR

4. a. Write a C program to find multiplication of two matrices using arrays. [7M]
b. Compare and contrast while and do-while loop. Give an example for each. [7M]

UNIT-III

5. a. What are the advantages of a function? List and explain different parameter passing methods to a function. [7M]
b. Write a C program to find the sum of array elements using Pointers. [7M]

OR

6. a. Define recursion. Write a C program to find Fibonacci series upto 10 terms using recursion. [7M]
b. With suitable example explain about dynamic memory allocation. [7M]

UNIT-IV

7. a. With an example distinguish the concepts of Structures and Unions. [7M]
b. What are nested structures? Explain it with a program. [7M]

OR

8. a. Apply the concept of structures and display the marks of three students in three different subjects. [7M]

b. Write about typedef and enumerated types. Write a C program to find a particular day in a week using enumerated types.

[7M]

UNIT-V

9. a. Construct a C program using Files to copy the contents of one file to another file.

[7M]

b .Demonstrate random access to files with a suitable program using fseek().

[7M]

OR

10 a. Differentiate Text and Binary files with a program.

[7M]

b.Illustrate the working of file functions with a program.

[7M]