

**BACHELOR OF TECHNOLOGY (CBCS - 2023)**  
**B. Tech. Sem-I COMPUTER SCIENCE & ENGINEERING-A&M : SUMMER : 2024**  
**SUBJECT: PROGRAMMING & PROBLEM SOLVING**

Day : Thursday  
Date : 16/05/2024

S-27617-2024

Time : 10:00 AM-01:00 PM  
Max. Marks : 60

**N. B. :**

- 1) All questions are **COMPULSORY**.
- 2) Figures to the right indicate **FULL** marks.
- 3) Draw neat and labelled diagrams **WHEREVER** necessary.
- 4) Assume suitable data, if necessary.

Q. 1 Write an algorithm and flow chart for the task such as receive a no from user (10)  
and check whether it is even or odd.

OR

Q. 1 What is Software Development life cycle? Describe using suitable example. (10)

Q. 2 Write a program to solve the following problem : Receive the radius of circle (10)  
and calculate the area of circle if the area is greater than 70 then circle is big,  
if the area is in the range of 50 to 69 then it is medium and for remaining it is short.

OR

Q. 2 Why we use goto statement, break and continue statement describe using (10)  
suitable example.

Q. 3 What is string? Write its methods using example. (10)

OR

Q. 3 What is Multidimensional array? Write program to show the two dimensional (10)  
array.

Q. 4 What is the use of function? Describe user define function using suitable (10)  
example.

OR

Q. 4 Write a program for finding the factorial of a number using recursive function. (10)

Q. 5 What is the need of pointer? Explain with suitable example. (10)

OR

Q. 5 Write a program to demonstrate Two Dimensional array using pointer. (10)

Q. 6 Write a program to create a file called Employee.txt and store and display (10)  
information of Five Employee in employee.txt file.

OR

Q. 6 What is file? Write code to represent the how to store data into file and retrieve (10)  
it using suitable example.

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