

BACHELOR OF TECHNOLOGY (CBCS - 2023)
B. Tech. Sem-I INFORMATION TECHNOLOGY : WINTER : 2023
SUBJECT : STRUCTURED PROGRAMMING

Day : Wednesday

Time : 10:00 AM-01:00 PM

Date : 6/12/2023

W-27659-2023

Max. Marks : 60

N.B.

- 1) All questions are **COMPULSORY**.
 - 2) Figures to the **RIGHT** indicate **FULL** marks.
 - 3) Assume suitable data, Wherever necessary.
 - 4) Draw neat and labeled diagrams, Wherever necessary.
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Q.1 What do you mean by structured Programming? C is middle level language – (10)
comment.

OR

Q.1 Define algorithm. What are the characteristics of a good algorithm? Write an (10)
algorithm for Binary Search.

Q.2 What do you mean by syntax errors and semantic errors answer with example? (10)
Discuss implicit and explicit type conversion?

OR

Q.2 Describe the header file and its usage in C programming? Write a program in (10)
C to find the area and perimeter of a circle.

Q.3 Write the programs to print table of 3 using different types of loops (for loop (10)
and while loop).

OR

Q.3 Discuss declaration, initialization and dereference with respect to Pointer. (10)
What Does "Pointer to a Pointer" Mean?

Q.4 Differentiate between standard function and user defined function with (10)
examples.

OR

Q.4 Develop a program in C to find the sum of the series $1!/1+2!/2+3!/3+4!/4+5!/5$ (10)
using the function.

Q.5 Explain how to declare structure, how to access a structure elements and (10)
passing array to function using example.

OR

Q.5 Formulate user defined function to concatenate and find length of strings. (10)

Q.6 Explain file handling in C. (10)

OR

Q.6 Construct a program in C to find the content of a file and the number of lines (10)
in text file.

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