

STESC105 - Programming for Problem Solving

P. Pages : 1

Time : Two Hours



GUG/S/25/16150

Max. Marks : 40

-
- Notes : 1. All questions are compulsory.
2. Assume suitable data wherever necessary.

1. a) What is flowchart? Explain different symbols involved in it. Draw the flowchart for the area of triangle. 7
b) Write a program in C “to swap two numbers” without using third variable / number. 7

OR

2. a) What is data types? Explain different types of data types in details. 7
b) Write note on:
i) Arithmetic operators.
ii) Assignment operators. 7
3. a) Explain the following looping statements with syntax.
i) While statements.
ii) For statements. 6
b) Explain switch case in detail with example. 7

OR

4. a) Write a C program to calculate the sum of 10 numbers and if user enter negative number loop will terminate by using break statement. 7
b) Differentiate between “if else statement” and “nested if” with suitable example . 6
5. a) Explain the following terms by giving examples.
i) Call by value
ii) Call by reference 7
b) Write a program to find largest element in an array. 6

OR

6. a) Define Recursion. Write a program to calculate the factorial of a number using recursion. 7
b) Explain the concept of user defined functions with the help of example. 6
