

STESC105 - Programming for Problem Solving

P. Pages : 1

Time : Two Hours



GUG/W/24/16150

Max. Marks : 40

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- Notes :
1. All questions carry equal marks.
 2. Illustrate your answers wherever necessary with the help of neat sketches.
 3. All questions are compulsory.

1. a) What is an Algorithm? Explain with suitable example. **6**
b) Explain the structured programming in C. **8**

OR

2. a) Discuss Bitwise operator with an example. **6**
b) What is Flowchart? Explain different symbols involved in it. List the advantages of the flowchart. **8**

3. a) Explain the following statements with proper syntax and example: **9**
1) for
2) while
3) do while
b) Write a program in C to find the factorial of a number. **4**

OR

4. a) Explain with example break statement in C. **4**
b) Write a program to check whether the entered year is leap year or not. **5**
c) Write the general format of the following: **4**
1) if
2) if-else

5. a) Distinguish between call by value and call by reference. **6**
b) What is Recursion? Write a C program to obtain the Fibonacci series using recursion. **7**

OR

6. a) What do you mean by Array? How are array elements accessed? **4**
b) Write a program in C to find largest element in an array. **5**
c) Explain the importance of function in C language. **4**
