

2SCS-T2 - Computer Science Paper-II (Structured Programming With C)

P. Pages : 2

Time : Three Hours



GUG/S/19/1235

Max. Marks : 50

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- Notes : 1. All question compulsory and carry equal marks.
2. Draw neat diagram whenever necessary.

1. Either
- a) Define problem Analysis, Explain process Analysis and conceptual Development of solution. **5**
 - b) Define Algorithm. Write Advantages and Disadvantages of a algorithm. **5**

OR

- c) Define a flowchart and Draw a flowchart to check whether the given number is even or odd. **5**
- d) What is operators? Explain the different operators. **5**

2. Either
- a) Explain the different type of conditional statement. **5**
 - b) Explain the term. **5**
 - i) For loop
 - ii) While and do-while with suitable example.

OR

- c) Write a program in 'C', to print the following output **5**
1
2 2
3 3 3
4 4 4 4
5 5 5 5 5
- d) What is mean by storage class? and Explain different storage class. **5**

3. Either
- a) Write a program in C to find the product of two matrices. **5**
 - b) What is structure? Explain Arrays of structure. **5**

OR

- c) Explain the term. **5**
 - i) Initializing structure.
 - ii) Nested structure.

d) What is string? Explain the string library function. 5

4. Either

a) Explain recursion with the help of a example. 5

b) What do you mean by 'call by value' and 'call by reference'. 5

OR

c) Explain the following term 5

i) Malloc()

ii) Calloc()

d) What is file? Explain different file opening modes. 5

5. Solve all the questions.

a) Difference between compiler and interpreter. 2½

b) Explain switch-----case statement used in 'C'. 2½

c) Explain the structure. 2½

d) Explain Arithmetic and string Library function. 2½
