

B.Sc. (Information Technology) - I Second Semester (Old)
2BIT3 - Paper-III: Structured Programming With C

P. Pages : 2

Time : Three Hours



GUG/W/18/1431

Max. Marks : 80

- Notes :
1. All questions are compulsory and carry equal marks.
 2. Draw neat and labelled diagram and use supporting data wherever necessary.
 3. Avoid vague answers and write specific answer related to questions.

1. Either:

- a) What are operators? List the different type of operators? Explain Relational operator with example. **8**
- b) What is variable? How to declare the variable in 'C'? Explain rule to declare the variable? **8**

OR

- c) Explain: **8**
 - i) Keywords
 - ii) Identifiers
 - iii) Token
 - iv) Expression
- d) Explain the printf() with different format specifications. **8**

2. Either:

- a) What do you mean by conditional statement? Explain the various conditional statement supported by 'C'. **8**
- b) Write a program to find factorial of a integer number. **8**

OR

- c) Write a difference between if-else and switch statement. **8**
- d) Explain the for loop with suitable example. **8**

3. Either:

- a) Define functions? List different types of functions. Explain function with arguments and no return value with suitable example. **8**
- b) Define structure? Explain how to declare the structure? Explain Accessing elements from structure. **8**

OR

- c) Explain various string handling functions supported by 'C'? **8**
- d) Write a program to reverse a string using strrev()? **8**

4. Either:
- a) Explain the concept of pointer with suitable example & also explain pointer operator? 8
 - b) Explain the concept of file handling in detail? 8

OR

- c) Write a difference between call by value & call by reference. 8
 - d) Write a program to swap the content of two variable using pointer. 8
5. Solve all the questions.
- a) Explain the type casting? Explain it with suitable example? 4
 - b) Define array? Explain different types of array? 4
 - c) Difference between structure and Union. 4
 - d) Explain the concept of open file and close file using suitable example. 4
