

243 - Structured Programming In C Paper - III

P. Pages : 2

Time : Three Hours



GUG/W/16/5140

Max. Marks : 80

- Notes :
1. All questions are compulsory and carry equal marks.
 2. Draw neat and clean diagrams wherever necessary.
 3. Avoid vague answers and write answers relevant and specific to questions only.

Either

1. a) What is variable. Give the rules to name the variables in C. **8**
b) Explain Bitwise operators in detail. **8**

OR

- c) Write a short note on **8**
 - i) getch()
 - ii) getche()
 - iii) getchar()
 - iv) putchar()
- d) Explain the concept of Increment and Decrement operator in C with example. **8**

Either

2. a) Explain switch ----- case in detail. **8**
b) What is storage class? Explain auto and static storage class in detail. **8**

OR

- c) Write a short note on break and continue. **8**
d) Write a program to find factorial of a number. **8**

Either

3. a) What is array? Explain declaration of single dimensional array with suitable example. **8**
b) Write a program in C to find the transpose of a given matrix. **8**

OR

- c) Explain any four string library functions. **8**
d) Write a program in C to sort an array using bubble sort. **8**

Either

4. a) Explain the importance of period operator in structure with example. **8**

- b) Write a program in C to explain the use of nested structure. (Use the fields roll no, name, comp., phy, math) 8

OR

- c) What is union? Give the characteristics of union. 8
- d) Write a program to show how to access structure elements. 8

5. Solve all the questions.

- a) Explain any four basic data types in C. 4
- b) Explain if ----- else ladder with example. 4
- c) Explain in detail sorting. 4
- d) Write a short note on array of structure. 4
