

P. Pages : 2

Time : Three Hours



GUG/S/23/10927

Max. Marks : 40

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

Either

1. a) What is library function ? Classify categories of functions. 4
b) Write a function factorial() to find factorial of given argument. 4

OR

- c) What is function definition ? Explain with syntax and suitable example. 4
d) Explain storage classes in ‘C’. 4

Either

2. a) Write a program to design a structure ‘Book’ with elements : 4
i) Title ii) author iii) Price and create structure variable for same structure
b) What is enumeration ? Explain. 4

OR

- c) A program to define and accept the elements of structure 4
i) rollno ii) name iii) marks of 3 papers.

Write a program to print total marks and percentage of student.

- d) What is union ? How it is different from structure ? Explain. 4

Either

3. a) Explain pointer operator with example. 4
b) Write a program to find area of circle using pointer. 4

OR

- c) Explain the concept of pointer with function. 4
d) Write a function swap() to interchange values of two variables using call by reference concept. 4

Either

4. a) What are different file modes while opening file? Explain. 4
b) Write a program to copy contents of one file to another file. 4

OR

- c) Explain the opening and file closing in file handling with example. 4
d) Write a program to read a file and calculate total number of vowel and consonants in file. 4
5. Attempt **all** the questions.
- a) What is function call ? Explain. 2
b) Explain period operator. 2
c) How to declare pointer variable ? Explain. 2
d) Explain command line arguments. 2
