

P. Pages : 2

Time : Three Hours



GUG/W/16/8068

Max. Marks : 80

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

1. Either

- a) Write short note on: 8
- i) Interpreter
 - ii) Compiler
- b) Define flowchart, Draw and explain all symbols used to design flowchart. Write advantages and disadvantages of flowchart. 8
- OR**
- c) Explain input and output statements in 'C' with syntax and example. 8
- b) Write short note on: 8
- i) Keywords
 - ii) Datatype
 - iii) Token
 - iv) Type casting

2. Either

- a) Write short note on: 8
- i) Auto variables
 - ii) Static variables
 - iii) Extern variables
 - iv) Register
- b) Write a program to print all the prime number between 10 to 100. 8

OR

- c) Explain looping statements with example. 8
- d) Write a program to print first 5 lines of following pyramid. 8
- ```

1
1 2
1 2 3
1 2 3 4
1 2 3 4 5

```

**3. Either**

- a) What is function? What is the purpose of 'Return' statement and keyword 'Void'? Explain with suitable example. 8
- b) Write a program to arrange the list of names in a sorted order using sequential sort. 8

**OR**

- c) Differentiate between structure and union with example. 8
- d) Write a program to sort an array of N numbers in ascending order using bubble sort. 8

**4. Either**

- a) Explain the following with their syntax. 8
- Realloc ()
  - Free ()
- b) Explain with example. 8
- Call by value
  - Call by reference.

**OR**

- c) Write a program to find product and division of two numbers using printers. 8
- d) What do you understand by opening and closing of the file? Explain various operations performed on files? 8

**5. All questions are compulsory.**

- a) Write short note on: 4
- problem analysis
- b) Write short note on switch statement. 4
- c) Explain any four string library functions. 4
- d) Explain command line argument. 4

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