

Bachelor of Science (B.Sc.-I) First Semester (Old)
COM-Sci-02 - Computer Science Paper-II
(Programming Logic and Techniques)

P. Pages : 2

Time : Three Hours



GUG/W/18/1205

Max. Marks : 50

- Notes :
1. All the 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) Explain in detail generation of computer languages in brief. 5
- b) Explain the role of linker and loader. 5

OR

- c) Explain compilation process in detail with suitable diagram. 5
- d) Discuss in detail characteristics of good language. 5

2. EITHER:-

- a) Discuss advantages and disadvantages of Algorithms. 5
- b) Draw a flowchart for finding compound interest. 5

$$\left(\text{Formula} \rightarrow \text{compound Interest} = P \left(1 + \frac{R}{100} \right)^N \right)$$

OR

- c) Write advantages and disadvantages of flowchart. 5
- d) Write an algorithm for finding sum and average of four numbers. 5

3. a) Explain the role of break and continue in looping. Give example. 5
- b) Write an algorithm to find sum of even numbers between 2 to 50. 5

OR

- c) Explain different formats & assignment statement with suitable example. 5
- d) Draw a flowchart to check number is prime or not. 5

4. EITHER:-

- a) Explain in detail two dimensional array. 5

- b) Write an algorithm for assigning arrays values and display it. 5

OR

- c) Draw a flowchart to count positive numbers of an array of size n. 5

- d) Write an algorithm for addition of two matrixes. 5

5. Attempt all the questions.

- a) Write the disadvantages of high level language. 2½

- b) Write a note on process Analysis. 2½

- c) Differentiate between while and do-while. 2½

- d) Write the features of modular programming. 2½
