



GUG/S/15/3306

B.Sc. (With Credits)-Regular-Semester 2012 Sem I
COM-Sci-02 Computer Science-II
(Programming Logic and Techniques)
Paper - II

P. Pages : 4

Time : Three Hours

Max. Marks : 50

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- Notes : 1. All questions are compulsory and carry equal marks.
2. Draw neat labelled diagrams wherever necessary.

1. Either :

- a) Explain the characteristic of good programming language. **5**
- b) Write short note on. **5**
i) Assembler.
ii) Compiler.

OR

- c) Explain low level languages and discuss its drawbacks. **5**
- d) Explain the role of linker and loader. **5**

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2. Either :

- a) Define algorithm. Write its advantages and disadvantages. **5**
- b) What is pseudo code? Explain its characteristics. **5**

OR

- c) Write an algorithm to check whether a given number is 'prime' or 'not prime'. **5**
- d) Write note on. **5**
 - i) Big-o notation.
 - ii) Problem analysis.

3. Either :

- a) Explain the arithmetic operators with different arithmetic operations giving suitable example. **5**
- b) Write short note on **5**
 - i) Break
 - ii) Continue

OR

c) Explain different looping statements used in programming languages. **5**

d) Write an algorithm to find sum of series. **5**

$$\text{Sum} = 1 + \frac{1}{n} + \frac{1}{n^2} + \frac{1}{n^3} + \dots$$

4. Either :

a) Explain bubble sort method with suitable example. **5**

b) Write an algorithm for addition of two matrices. **5**

OR

c) Write note on modular programming. Also state its features. **5**

d) Write an algorithm to search an element from an array and display appropriate message. **5**

5. Attempt **all** the questions.

a) What are the advantages of assembly language. **2½**

b) Draw and explain various symbols used for flowchart. **2½**

c) Explain role of constants and variables in programming language. **2½**

d) What is array ? List the types of array. **2½**
