B.Sc. First Year (NEP) Semester-I

BSCCS501 - Core - Computer Science - Programming Logic and Techniques

P. Pages : 1 **GUG/S/25/15927**

Time : Three Hours * 3 5 5 5 * Max. Marks : 40

Notes : 1. All questions are compulsory and carry equal marks.
2. Draw neat and labeled diagrams and use supporting data wherever necessary.
3. Avoid vague answers and write specific points / answers related to questions.

Either:

1. a) What is High-level Language? Write advantages of High-Level language. **4**

b) Distinguish between Assembly and Machine Language. **4**

OR

c) Differentiate between compiler and Interpreter. **4**

d) Explain comparative study of High Level Languages. **4**

Either:

2. a) Draw flowchart to find area of rectangle. **4**

b) Enlist the Advantages of Flowchart. **4**

OR

c) Explain conceptual development of solution. **4**

d) Write an algorithm to calculate area of circle . **4**

Either:

3. a) What is Operator? Explain relational operators. **4**

b) Write the rules for naming variable. **4**

OR

c) Write an algorithm to find sum of 1 to 10 numbers. **4**

d) Explain Multi-way conditional statement. **4**

Either:

4. a) Explain the need of array in programming. **4**

b) Write any two operations perform on an array and its purpose. **4**

OR

c) Write an algorithm to add two $m * n$ matrices. **4**

d) Write an algorithm for traversing a linear array. **4**

5. Attempt all the questions

a) What is assembler? **2**

b) Write a note on process analysis. **2**

c) Explain usage d keywords. **2**

d) What is array? **2**

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