

B.Sc. First Year (NEP) - Semester-I
BSCCS501 - Core Computer Science - Programming Logic and Techniques

P. Pages : 2

Time : Two Hours



GUG/W/24/15927

Max. Marks : 40

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

Either:

1. a) What is Assembly Language? Write Advantages of Assembly Language. 4
- b) Distinguish between High-Level and Machine Language. 4

OR

- c) Describe function oriented language with example. 4
- d) Explain characteristics of good programming language. 4

Either:

2. a) Explain the Advantages of Algorithm. 4
- b) Write an algorithm to find largest among given two numbers. 4

OR

- c) Write an algorithm to find the average of 3 numbers. 4
- d) Draw a flowchart to calculate area of circle. 4

Either:

3. a) Write an algorithm to find sum of all numbers between 11 to 20 using for loop. 4
- b) Explain two-way conditional statement. 4

OR

- c) Explain for statement with example. 4
- d) Write an algorithm to find factorial of given number using while loop. 4

Either:

- | | | | |
|-----------|----|--|----------|
| 4. | a) | Explain one dimension array with example. | 4 |
| | b) | Write an algorithm to find sum of all elements in given array of n elements. | 4 |

OR

- | | | | |
|-----------|----|---|----------|
| | c) | Write an algorithm to add two matrices. | 4 |
| | d) | Explain the transpose of matrix with example. | 4 |
| 5. | | Attempt all the questions. | |
| | a) | What a note on compiler. | 2 |
| | b) | What is process analysis? | 2 |
| | c) | Write rules of defining variable. | 2 |
| | d) | Write a short note on two dimensional array. | 2 |
