

B.C.C.A. II (with Credits)-Regular-Semester 2012 Sem. III
BCCA233 - Paper-III : Programming Logic and Techniques

P. Pages : 2

Time : Three Hours



GUG/W/16/2947

Max. Marks : 80

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

1. Either :

- a) What is meant by generation of languages? Explain. 8
- b) Write a note on : 8
- i) Compiler
- ii) Assembler

OR

- c) Discuss the importance of Event Based and Scripting programming language. 8
- d) Explain the advantages and disadvantages of Assembly language as compare to machine and high level language. 8

2. Either :

- a) Explain different development tools. 8
- b) Write an algorithm and draw a flowchart to swap two numbers without using any extra variable. 8

OR

- c) What are the steps involved in conceptual development of a solution of problem. 8
- d) Write an algorithm and draw a flowchart to find the largest number among two numbers. 8

3. Either :

- a) Explain Basic and Derived Datatypes in detail. 8
- b) Write an algorithm to calculate LCM of two positive integer numbers. 8

OR

- c) What is an unconditional control structure? Explain with an example. 8
- d) Write a note on : 8
- i) Keywords
- ii) Identifiers

4. Either :

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|----|---|----------|
| a) | Describe in detail the representation of a one-dimensional array in memory. Give the addressing function for one dimensional array. | 8 |
| b) | Explain the concept of modular programming with its features. | 8 |

OR

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|-----|---|----------|
| c) | Write a note on | 8 |
| i) | Merging | |
| ii) | Sorting | |
| d) | Write an algorithm and draw a flowchart to search an element in the array by using linear search. | 8 |

5. Attempt all questions.

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|----|--|----------|
| a) | Explain Compilation Process. | 4 |
| b) | Explain Problem Analysis. | 4 |
| c) | Give the usage of Exit and Continue. | 4 |
| d) | Write a note on Two dimensional Array. | 4 |
