

# AE-1339

B.C.A. Old Course (Part-II)

Term End Examination, 2016-17

## Paper - II

# Programming Concepts and Languages

*Time : Three Hours]      [Maximum Marks : 100*

[Minimum Pass Marks : 40

**Note** : Answer **all** questions. All questions carry equal marks. Any missing data may be suitably assumed.

## Unit-I

1. Write an algorithm for Bubble sorting.

***OR***

- 2.** Write an algorithm for binary searching.

## Unit-II

3. What is flow chart ? Explain all symbols of flow chart with appropriate example.

***OR***

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4. What do you mean by Top-down Structured Programming ? Explain with an example.

### **Unit-III**

5. What is queue data structure ? Explain all operations of Queue.

**OR**

6. What is graph data structure ? Explain direct and indirect graph.

### **Unit-IV**

7. What is COBOL programming ? Write a short note.

**OR**

8. Write a COBOL programme to compute the mark sheet of a student.

### **Unit-V**

9. What is painter ? List out the advantages of a painter.

**OR**

10. Explain *if* and *else* structure with an example.
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