



GB-074003

Seat No. _____

B. C. A. (Sem. IV) Examination

March / April – 2019

BCAOC - 403 : System Analysis and Design

Time : 3 Hours]

[Total Marks : 70

Instructions

- (1) Figures on the right indicate the marks.
- (2) All Questions are compulsory.
- (3) Answer of each question must start on a new page.
- (4) Answer of all sub-questions of a question should be written in continuous order.

1 Do as Directed(Any 7): **14**

- (1) Define the term: Interview.
- (2) Define the term: Data Dictionary with concepts and rules.
- (3) Differentiate between Generalization and Specialization.
- (4) Define the term: Inheritance with example.
- (5) Define the term: Abstraction.
- (6) Define the term: Objects.
- (7) Define the term: Document Review.
- (8) Define the term: Encapsulation.
- (9) Differentiate between Aggregation and Composition.

2 Explain Any Two. **14**

- (a) What is Feasibility Study? Describe the type of Feasibility in detail.
- (b) What is DFD? Explain with a suitable example.
- (c) Explain classical water fall model.
- (d) Explain spiral model of system development.

3 Explain Any Two. **14**

- (a) What is UML? Describe UML with suitable example.
- (b) What do you mean by module coupling and cohesion? How one differs from the other?
- (c) What does mean by Object-oriented modeling? Explain 3 model with suitable example.

4 Explain Any Two. **14**

- (a) Explain the Use-Case Diagram with its elements and suitable example.
- (b) What is class diagram? List and explain elements of class diagram with suitable example.
- (c) What is object diagram? List and explain elements of Object Diagram with suitable example.

5 Answer Any Two.

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- (a) What does mean by Sequence Diagram.? List and explain elements of Sequence Diagram with suitable example.
 - (b) What is Activity Diagram? List and explain elements of Activity Diagram with suitable example.
 - (c) What is State chart Diagram? List and explain elements of State Chart Diagram with suitable example.
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