# Dr. Babasaheb Ambedkar Open University

Term End Examination July-2016

| | | | |
|---|---|---|---|
| **Course** | : PGDCA | **Numerical Code: (Not Require)** | |
| **Subject Code** | : PGDCA – 204 | **Numerical Code: (Not Require)** | |
| **Subject** | : Object Oriented Analysis and Design | **Total Marks** | : 70 |
| **Date** | : **(Not Require)** | **Time** | : **(Not Require)** |

**Section A** **(30)**

**Attempt any Three of the following:**

1. Explain the following with example:
   I. Link and Association
   II. Generalization and Inheritance
2. What is state and event? Explain the types of event.
3. Write the characteristics of data flow diagram? Draw and explain the symbols of data flow diagram.
4. Explain the sequence diagram with example.
5. Explain the elements of state diagram.

**Section B** **(20)**

**Write short notes on any four.**

1. Explain the three analysis technique.
2. What is the Differences between Structured Analysis and Object Oriented Analysis
3. What is use case? Draw and explain the symbols that are use in use case diagram.
4. Write a short note on functional model.
5. What are the object design steps?
6. Write short note on Concurrency?

**Section C**

**(A) Multiple Choice Questions.** **(10)**

1 What is generalization?
A. Relationship between one class and its refined versions
B. IS-A relationship
C. Defining super class from given set of related entities
D. All of these

2 What is Iteration?
A. Repetition of design process
B. Reusability
C. Re-examine the model to remove inconsistencies
D. All of these

3 While object designing which of the following should be used for analysis?
A. Object modeling
B. Functional modeling
C. Data modeling
D. All of these

SAMPLE QUESTION PAPER

4 Which of the following data structures can be used in object designing?
A. array
B. List
C. Queues
D. all of these

5 What are the forms of concurrency?
A. System concurrency
B. Concurrency within object
C. Both of these
D. None of these

6 What is inheritance?
A. Acquiring properties of base class in sub class
B. A method
C. A class
D. None of these

7 How can we represent an interface?
A. By using a circle
B. By using an eclipse
C. By using a square
D. None of these

8 While object designing which of the following should be used for analysis?
A. Object modeling
B. Functional modeling
C. Data modeling
D. All of these

9 Which of the following metrics determine algorithm in terms of time and Memory necessities?
A. Flexibility
B. Computational complexity
C. Understandability
D. None of these

10 What is pseudo state?
A. It is the first state
B. It is the starting point of a state chart
C. It is the final state
D. None of these

**(B) True or False. (10)**

1. Class is group of objects with common properties and is like a blueprint from where objects are created.
2. Two objects are said to be concurrent if two objects are same.
3. Dynamic model describes about the time of performing an event.
4. Encapsulation is a method of bundling data and methods which make use of data.
5. The advantages of using object modeling it can not models the problem domain objects
6. Meta data summarizes basic information about data.
7. Functional model describes the function of internal processes of a system
8. While designing an object classes and objects are encapsulated in a package.
9. In modeling design is a problem related to object domain in programming.
10. Object model is use to reduce development risk.

SAMPLE QUESTION PAPER