

Dr. BabasahebAmbedkar Open University
Term End Examination January – 2019

Course	: PGDCA	Date	: 16/02/2019
Subject Code	: PGDCA-204	Time	: 11:00am to 02:00pm
Subject Name	: Object Oriented Analysis and Design	Duration	: 03 Hours
		Max. Marks	: 70

Section A

Answer the following (Attempt any three) (30)

1. Write a short note on state diagram and its elements.
2. Explain decomposition with proper example.
3. Describe DFD in detail.
4. Define and explain Object Oriented Modeling in detail.
5. Explain management of data store in OOAD.

Section B

Answer the following (Attempt any four) (20)

1. Write note on generalization as a restriction.
2. Describe various steps involved in object design.
3. Write a short note on multiple inheritance.
4. Explain object model in brief.
5. Differentiate structured analysis and object oriented analysis.
6. Define concurrency and explain its various form.

Section C

Part – A (Multiple Choice Questions) (10)

- 1 Data structure includes
A Arrays B Lists
C Trees D All of them
- 2 Which diagram displays the structural relationship of components of the software system
A Class diagram B Object diagram
C Component diagram D State diagram
- 3 It represents as objects in object model.
A Actor B Data store
C Data flow D None of them
- 4 Collaboration represented by _____ in UML
A Dotted ellipse B Circle
C Square box D None of them
- 5 Persistent object is stored with
A File B Relational Database
C Object Database. D All of them

- 6 Unified Modeling Language(UML) classifies events into_____.
 A Signals B Calls
 C Both A and B D None of them
- 7 Degree of association can be
 A Unary association (degree of one) B Ternary Association (degree of three)
 C Binary Association (degree of two) D All of them
- 8 In Dynamic model transition is shown by
 A Arrow B Rectangle
 C Dot D None of them
- 9 Aggregation is also known as a
 A “Has-a” relationship. B “Is-A” relationship
 C “As-A” relationship D None of them
- 10 Which notation in DFD denotes data store?
 A Rectangles B Circles
 C Arrows D Open ended rectangle

Part – B (Do as Directed)

(10)

- 1 Algorithm is a stepwise procedure which solves problem in required manner.
True/False
- 2 A class is a collection of things, or ideas that have the same characteristics.
True/False
- 3 Activity diagrams are used to model the behaviors of a system. True / False
- 4 Event is the movement of object from one state to another state. True/False
- 5 Full form of UML is Unified Modeling Technique. True/False
- 6 System context has two parts that are static and dynamic. True/False
- 7 An abstract class can't be instantiated. True/False
- 8 state diagrams are drawn for a single class to point out the life behavior of a single object. True/False
- 9 A class diagrams shows the dependencies between different packages in a system.
True/False
- 10 A node represents a physical component of the system. True / False