

**Dr. Babasaheb Ambedkar Open University**  
**Term End Examination July – 2021**

Course	: BCA	Date	: 09-Aug-2021
Subject Code	: BCAN-502(NEW)	Time	: 01:00pm to 03:00pm
Subject Name	: Object Oriented Analysis and Design	Duration	: 02 Hours
		Max. Marks	: 50

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**Section A**

**Answer the following (Attempt any two) (20)**

1. Explain Tools and Approaches in OO Analysis and Design.
2. Explain Object Oriented Methodologies.
3. Explain Use Case Model.
4. Draw and Explain UML Sequence Diagram.

**Section B**

**Answer the following (Attempt any three) (15)**

1. Explain Class and Object.
2. Draw and Explain Business Domain Model.
3. Explain Unified Modelling Language.
4. Explain Collaboration Diagrams.
5. Draw and Explain State Transition Diagram for a Digital Watch.

**Section C**

**Part – A (Multiple Choice Questions)**

**(10)**

- 1 Object Oriented analysis includes \_\_\_\_\_.  
A Object modeling                      B Dynamic modeling  
C Functional modeling.                D All of these
- 2 Prototyping is a \_\_\_\_\_ process.  
A Iterative                                B Linear  
C Incremental                            D None of these
- 3 Model Integration in Object Oriented Methodology is based on \_\_\_\_\_.  
A Behavior                                B Function  
C Structure                                D all of above
- 4 \_\_\_\_\_ is a benefit of object-oriented modeling.  
A improved reliability                  B improved flexibility  
C reduced maintenance                D all of these
- 5 In UML 2, the Name Box is \_\_\_\_\_.  
A circular in shape                      B rectangular in shape  
C spherical in shape                    D none of above
- 6 In UML Collaboration Diagram, patterns are used to \_\_\_\_\_.  
A make objects                            B justify relationships  
C arrange numbers                        D all of above

- 7 In digital clock, which among the following is not a state\_\_\_\_\_.
- A Display B Set Hours  
C Set Minutes D Set Days
- 8 A collaboration diagram is similar to \_\_\_\_\_.
- A flowchart B Network  
C both a and b D none of above
- 9 JavaBeans uses\_\_\_\_\_.
- A Linux B Java 1.1  
C COM D all of these
- 10 In UML collaboration diagram, Use case is shown as \_\_\_\_\_.
- A rectangle B Circle  
C Eclipse D none of these

**Part – B (Do as Directed)**

**(05)**

**State whether the following statements are true or false**

- 1 In a flowchart, process can be represented by rectangular shaped object.
- 2 Maintenance of Software Project is the goal of Software Project Management.
- 3 The purpose of Pseudocode is to plan for program logic.
- 4 A class is a Collection of similar objects.
- 5 Pseudocode is a tool which is used for planning program logic.

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