DR. BABASAHEB AMBEDKAR TECHNOLOGICAL UNIVERSITY, LONERE
Regular End Semester Examination – Summer 2022

Course: B. Tech. **Branch :CE/CSE** **Semester :VI**

Subject Code & Name: BTCOE603(C) Object Oriented Analysis Design

Max Marks: 60 **Date: 20/08/2022** **Duration: 3.45 Hr.**

Instructions to the Students:

1. *All the questions are compulsory.*
2. *The level of question/expected answer as per OBE or the Course Outcome (CO) on which the question is based is mentioned in ( ) in front of the question.*
3. *Use of non-programmable scientific calculators is allowed.*
4. *Assume suitable data wherever necessary and mention it clearly.*

		(Level/ CO)	Marks
Q. 1	**Solve Any Two of the following.**		
A)	Describe Encapsulation and Information hiding.	**L1, L2, L3**	**6**
B)	Define static and Dynamic Binding for objects	**L1, L2**	**6**
C)	Explain Object Oriented SDLC with suitable diagram	**L2, L4, L5**	**6**
Q.2	**Solve Any Two of the following.**		
A)	Draw Class diagram for Hospital management system	**L1, L2, L3**	**6**
B)	Draw & explain UML - Basic Notations	**L2, L4, L5**	**6**
C)	Draw Use Case Diagram for Library management system	**L2, L4,L5, L6**	**6**
Q. 3	**Solve Any Two of the following.**		
A)	Explain in brief Use case analysis with the example	**L2, L4,L5, L6**	**6**
B)	Explain CRC card analysis with example	**L2, L3,L5,**	**6**

C)	What is Object Oriented Analysis (OOA) & Explain in brief following
	    I. Functionalities of OOA
	    II. Advantages of OOA
		L2, L4,L5, L6	**6**

Q.4	**Solve Any Two of the following.**		
A)	What is system design? Explain Object-Oriented Decomposition in detail	**L1, L2**	**6**

B)	What is Behavioral Design Patterns? Explain following types
	    I. Chain of Responsibility Pattern
	    II. Command Pattern
		L1,L2,L3	**6**

C)	What is Creational Design Pattern? Explain following types
	    I. Factory Pattern
	    II. Abstract Factory Pattern
		L1,L2,L3	**6**

Q. 5	**Solve Any Two of the following.**		
A)	What are the benefits of Object Oriented Databases (OOD)	**L1,L2**	**6**
B)	Differentiate between Object-Oriented languages & Non-Object-Oriented languages	**L5**	**6**
C)	What is Future of Object-Oriented Technology	**L5**	**6**

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