## BACHELOR OF COMPUTER APPLICATIONS (C.B.C.S.) (2014 COURSE) B.C.A. Sem-V: WINTER- 2022 SUBJECT: OBJECT ORIENTED ANALYSIS & DESIGN

Day : Thursday

Time: 10:00 AM-01:00 PM

Date: 22-12-2022

W-11051-2022

Max. Marks • **100** 

N.B.:	1)	Attempt ANY FOUR questions from Section – I and ANY TWO questions Section – II.	from
	2) 3)	Answers to both the sections should be written in the <b>SAME</b> answer book. Figures to the right indicate <b>FULL</b> marks.	
SECTION – I			
Q.1		What is use of Use-Case modeling? State and describe various relationships in use case diagram.	[15]
Q.2	a)	Describe the following Object Oriented principles: Abstraction <b>b)</b> Encapsulation <b>c)</b> Polymorphism	[15]
Q.3		What is architectural modeling? Analyse role of deployment diagram in it.	[15]
Q.4		Illustrate the role of Collaboration diagram in software modeling.	[15]
Q.5		What do know about class relationships? State and describe relationships in class diagram.	[15]
Q.6		State the phases of Rational Unified Process (RUP) and describe the task carried out in each phase.	[15]
<b>Q.</b> 7	a) b) c) d)	Write short notes on <b>ANY THREE</b> of the following: Composition Package diagram Merge and joins Component diagram	[15]
SECTION – II			
Q.8		Write a problem statement for e-library management system and identify classes involved in it along with their attributes and behaviour. Build a class diagram for same.	[20]
Q.9		Describe the role of Activity diagram in software modeling and construct activity diagram for "Process Order" in online shopping portal.	[20]
Q.10	)	Identify objects involved in "Car Rental System". Which objects participate to rent a car? Draw sequence diagram for same.	[20]