

BACHELOR OF COMPUTER APPLICATIONS (C.B.C.S.) (2014 COURSE)

B.C.A. Sem-V :SUMMER- 2022

SUBJECT : OBJECT ORIENTED ANALYSIS & DESIGN

Day : Saturday
Date : 11/6/2022

S-11051-2022

Time : 10:00 AM-01:00 PM
Max. Marks : 60

N.B.:

- 1) Attempt any **FOUR** questions from Section –I and any **TWO** questions from Section –II.
 - 2) Figures to the right indicate **FULL** marks.
 - 3) Answers to both the sections should be written in **SAME** answer book.
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SECTION-I

- Q.1** How Rational Unified Process (RUP) is iterative and incremental? Explain in brief. (15)
- Q.2** Describe following terms in brief: (15)
- | | |
|----------------------|-------------|
| a) Aggregation | d) CRC Card |
| b) Interface | e) Object |
| c) Class Association | |
- Q.3** What is Use Case? Describe the format of writing Use Case with example. (15)
- Q.4** What is an Activity? Describe the role of Activity diagram in Software Design Process. (15)
- Q.5** What is Component diagram? Explain role of it in Software Design. (15)
- Q.6** List the diagrams used to show Object Interaction. Compare when to use which diagram. (15)
- Q.7** Write short notes on any **THREE** of the following: (15)
- a) Package Diagram
 - b) Events in State Diagram
 - c) Polymorphism
 - d) Interface Realization

SECTION-II

- Q.8** Identify classes in online Car Rental System and draw Class diagram for same. (20)
- Q.9** A customer wants to book a ticket for movie in online system. Explain the process of booking movie ticket and draw Use Case diagram for same. (20)
- Q.10** a) Explain the states of an elevator (Lift) and draw a State Transition diagram for it. (10)
- b) Draw Activity diagrams to issue and return a Book in Library Management System. (10)