

BACHELOR OF COMPUTER APPLICATIONS (C.B.C.S.) (2014 COURSE)
B.C.A. Sem-V : WINTER : 2021
SUBJECT: OBJECT ORIENTED ANALYSIS & DESIGN

Day : Tuesday
Date : 11-01-2022

W-11051-2021

Time : 10:00 AM-01:00 PM
Max. Marks: 100

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** Explain the Rational Unified Process (RUP) used for software development. (15)
- Q.2** What is Use case? Describe the format to write Use case description in User Interface free format. (15)
- Q.3** Describe the following terms with example. (15)
i) Class ii) Object iii) Aggregation
- Q.4** Illustrate the role of activity diagram in modeling dynamic behavior of system. (15)
- Q.5** What is use of interaction diagram? State diagrams used for the same and also describe use of each. (15)
- Q.6** What do you know General Responsibility Assignment Software Patterns (GRASP)? Describe it in brief. (15)
- Q.7** Write short notes on any **TWO** of the following: (15)
a) Component diagram
b) Package diagram
c) Polymorphism

SECTION-II

- Q.8** A 'Compact Disc (CD) Library' is interested to go for online system to be used for maintain database of available CD, members of library and handle borrow and return of CD. Identify classes used for system and also draw a class diagram for the same. (20)
- Q.9** What do know about state diagram? Illustrate the role of it in software modeling with suitable example. (20)
- Q.10** In online course registration system which will maintain data of courses available and students registered for each course. Along with all other processes student can register and unregister for a course. Describe process to register and unregister for courses and draw activity diagram for the same. (20)

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