

BACHELOR OF COMPUTER APPLICATIONS (CBCS - 2018 COURSE)
B.C.A. Sem-V : WINTER- 2022
SUBJECT : OBJECT ORIENTED ANALYSIS & DESIGN

Day : Thursday

Time : 02:00 PM-05:00 PM

Date : 1/12/2022

W-18788-2022

Max. Marks : 60

N.B :

- 1) **Q. No. 4 from Section – I is COMPULSORY.**
 - 2) Solve **Any TWO** from **Q.No.1 to Q. No.3** in **Section – I.**
 - 3) Solve **Any TWO** from **Q.No.5 to Q. No.7** in **Section – II.**
 - 4) Figures to the right indicate **FULL** marks.
 - 5) Answers to both sections should be written in **SAME** answer book.
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SECTION - I

- Q.1** a) Define 'Object Orientation'. Explain following concepts: [06]
i) Class and Object ii) Inheritance iii) Polymorphism
- b) How to write Use Case? Explain with example. [06]
- Q.2** a) Differentiate between System Sequence Diagram and Collaboration [06]
Diagram.
- b) Explain Package Diagrams with example. [06]
- Q.3** a) When to draw Class Diagrams? Explain advantages of it. [06]
- b) Explain various relationships used in UML with suitable examples and [06]
symbols.
- Q.4** Write short notes on **ANY THREE** of the following: [12]
- a) Modeling Principles
 - b) Component Diagrams
 - c) State Chart Diagram
 - d) Rational Unified Process
 - e) Actors

SECTION-II

- Q.5** Identify conceptual classes and draw Class Diagram for 'Health Insurance [12]
Policy'. The policy should cover job-based coverage, self-coverage benefits
etc.
- Q.6** Draw Deployment Diagram for Library Management System. [12]
- Q.7** List and describe various activities involved in recruitment process. Draw [12]
Activity Diagram for Online Recruitment Process.

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