

**CDOE**  
**MASTER OF COMPUTER APPLICATIONS (CBCS-2018 COURSE)**  
**M.C.A. Sem - III : WINTER :- 2021**  
**SUBJECT: OBJECT ORIENTED ANALYSIS & DESIGN**

**Day : Wednesday**  
**Date 16-02-2022**

**W-19190-2021**

**Time : 10:00 AM-01:00 PM**  
**Max. Marks: 70**

**N.B.:**

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

**SECTION-I**

- Q.1** Describe the following terms (10)  
i) Class  
ii) Object  
iii) Abstraction  
iv) Encapsulation
- Q.2** Explain the use of Rational Unified Process (RUP) used in software development. (10)
- Q.3** What is requirement gathering? Describe UML diagrams used in requirement gathering. (10)
- Q.4** Explain role of State transition diagram in software modeling. (10)
- Q.5** State and describe various associations used in class diagram. (10)
- Q.6** Write short notes on any **TWO** of the following. (10)  
1) Aggregation and composition  
2) Swim-lanes  
3) Sequence diagram.

**SECTION-II**

- Q.7** Describe the Use-Cases (Processes) involved in the recruitment process of an Information Technology (IT) company and draw activity diagram for any two of them. (15)
- Q.8** Identify classes to be used in Online Library Management System by providing system specification and draw a class diagram for same. (15)
- Q.9** Illustrate the role of Component and Deployment diagram in Software Modeling with suitable example. (15)

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