

**BACHELOR OF COMPUTER APPLICATIONS (CBCS - 2018 COURSE)**  
**B.C.A. Sem-V : WINTER : 2021**  
**SUBJECT: OBJECT ORIENTED ANALYSIS & DESIGN**

Day : *Thursday*  
Date : *27-01-2022*

W-18788-2021

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

**N.B.**

- 1) Q.4 from Section- I is **COMPULSORY**.
- 2) Answer any **TWO** questions from Section – I Q.1 to Q.3.
- 3) Answer any **TWO** questions from Section – II Q.5 to Q.7.
- 4) Figures to the right indicate **FULL** marks.
- 5) Answers to both the sections should be written in the **SAME** answer book.

**SECTION – I**

- Q.1** a) What is an object orientation? Explain the concept of inheritance with example. (06)
- b) What is UML? Explain advantages of UML. (06)
- Q.2** a) Explain static dimension of RUP with suitable diagram. (06)
- b) What is use case? Write a use case for online admission process? (06)
- Q.3** a) Differentiate between collaboration diagram and system sequence diagram. (06)
- b) What is architectural modeling? Explain the purpose of deployment diagram. (06)
- Q.4** Write short notes on **ANY THREE**: (12)
- a) Requirement modeling
  - b) Package diagram
  - c) Basic elements of UML
  - d) Object diagram
  - e) Dynamic modeling

**SECTION – II**

- Q.5** a) Draw activity diagram using Swim lanes for withdrawing amount from the ATM. (06)
- b) Draw use case diagram for online shopping. (06)
- Q.6** a) Draw component diagram for e-Library management system. (06)
- b) Identify conceptual classes and draw the class diagram for attending the seminar using online platform. (06)
- Q.7** a) Draw state chart for finalizing a marriage using matrimonial website. (06)
- b) Explain how the object orientated style helps for reusability, extensibility and robustness. (06)

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