

**BACHELOR OF TECHNOLOGY (CBCS) (2021-COURSE)**  
**B. Tech. Sem - IV COMPUTER SCIENCE & BUSINESS SYSTEMS : SUMMER : 2024**  
**SUBJECT: ITC-II: SOFTWARE DESIGN WITH UML**

Day : Wednesday  
Date : 05/06/2024

**S-24156-2024**

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

**N.B.**

- 1) All questions are **COMPULSORY**.
- 2) Figures to the right indicate **FULL** marks.
- 3) Assume suitable data wherever necessary.
- 4) Draw neat diagrams **WHEREVER** necessary.

Q.1 What is software development process? Explain in waterfall model vs. spiral model in detail. (10)

**OR**

Q.1 Describe object-oriented analysis process vs. structure analysis mode with example. (10)

Q.2 What is system requirement? Draw and explain requirement analysis student information system. (10)

**OR**

Q.2 Explain use case diagram component. Draw ATM system using use case diagram. (10)

Q.3 Draw and explain class diagram with all notations any one example. (10)

**OR**

Q.3 Define UML method. Explain finding objects from flow of events. Draw online banking system using interaction diagram. (10)

Q.4 Explain in detail white box and black box with example. (10)

**OR**

Q.4 Draw and explain package diagram any one example. (10)

Q.5 What is Event Handling? Draw and explain activity diagram with anyone example. (10)

**OR**

Q.5 Draw online Library Management System using Activity diagram with all components of activity diagram. (10)

Q.6 Draw and Explain physical and logical aspect in detail. (10)

**OR**

Q.6 What is DB design in a UML environment? Explain in detail. (10)

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