

# POKHARA UNIVERSITY

Level: Bachelor

Semester: Fall

Year : 2020

Programme: BE

Full Marks: 100

Course: Object Oriented Software Development

Pass Marks: 45

Time : 3hrs.

*Candidates are required to give their answers in their own words as far as practicable.*

*The figures in the margin indicate full marks.*

**Attempt all the questions.**

1. a) Discuss about the importance of object oriented Analysis and object oriented Design in object-oriented paradigm? 7
- b) What is UML? Explain about flow-oriented modelling, using DFD of library management system as an example. 8
2. a) Explain Iterative and Incremental Development Process, of software development using examples of each. 8
- b) Explain 4 P's of software project management. 7
3. a) What is Unified Process? Explain its characteristics. 8
- b) Explain the models evolution through the iterations during software development. 7
4. a) What is Design Pattern? Write about importance of Design Patterns. 7
- b) Explain about Interpreter pattern along with its UML representation. 8
5. a) Write about structure and documentation of pattern. 7
- b) Explain about concurrency pattern. 8
6. a) What do you mean by architectural pattern? Explain about Model View Controller (MVC) architectural pattern. 7
- b) Explain Message Oriented Architecture Pattern with design principles. 8
7. Write short notes on: (**Any two**) 2×5
  - a) Life Cycle of Unified Software Development Process.
  - b) Real time pattern
  - c) Architecture Centric process