

## POKHARA UNIVERSITY

Level: Bachelor

Semester: Spring

Year : 2018

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) Describe the Object Oriented Analysis and Design process with example. 8  
b) Change management is very important in Iterative and Incremental Development. Why and how is it done? 7
2. a) Explain 4 P's of software development. 8  
b) What is Unified Process? Explain its characteristics. 7
3. a) Define software quality. How can you assure quality in software you develop? Give your answer from the prospect of Software System Analyst. 8  
b) What do you mean by Creational Patterns? Explain any one of its type with DCD and source code snippet. 7
4. a) What is Design Pattern? Write about importance of Design Patterns. 7  
b) What are the difficulties and risks while using design pattern? Discuss in brief. 8
5. a) Explain about concurrency pattern. 7  
b) What is Software Architecture? Describe an architecture using UML. 8
6. a) What do you mean by architectural pattern? Explain about Model View Controller (MVC) architectural pattern. 8  
b) Explain Message Oriented Architecture Pattern with design principles. 7
7. Write short notes on: (**Any two**) 2×5
  - a) Architecture centric process
  - b) Interaction Diagram
  - c) Message Oriented Architecture