# POKHARA UNIVERSITY

Level: Bachelor     Semester: Fall     Year     : 2017
Programme: BE                             Full Marks: 100
Course: Object Oriented Software Engineering     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.**

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|---|---|---|---|
| 1. | a) | What do you mean by agile development? Explain the agile process and agility? Explain the agile process and agility principles. | 8 |
| | b) | How do you estimate the software project? Explain any one of them with example. | 7 |
| 2. | a) | What do you mean by RMMM plan? Describe the reactive and proactive risk handling strategies in brief. | 7 |
| | b) | What are the project planning processes? Explain the W5HH principle in brief. | 8 |
| 3. | a) | What do you mean by the functional and non-functional requirements? Give any four functional and non-functional requirements for computer based online hotel reservation system. | 8 |
| | b) | Obtain the DFD for library information system. | 7 |
| 4. | a) | Define the meaning of software quality and detail the factors which affect the quality not productivity of a software product? | 7 |
| | b) | What is UML diagram? Explain briefly about state chart diagram, sequence diagram and collaboration diagram with example. | 8 |
| 5. | a) | What are test cases and what is the importance of testing and designing test cases. | 8 |
| | b) | What do you mean by SCM? List out the difference between change control and version control in SCM. | 7 |
| 6. | a) | Draw the Class diagram and activity diagram for an automated teller machine. | 8 |
| | b) | Explain the software process improvement framework in detail. | 7 |
| 7. | | Write short notes on: (**Any two**) | 2×5 |
| | a) | ISO standards | |
| | b) | Cleanroom engineering | |
| | c) | COCOMO model | |
| | d) | Case tools | |