

University of Mumbai

T.E Third Year 2013 - 2014 May

Semester 6 (TE Third Year)

Object Oriented Software Engineering

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May 2014 TE (EOP) RAN, SEM VI  
13/05/14 OOSE

QP Code : MV-18077

(3 hours)

[ Total Marks : 100

- N.B.** (1) Question no. 1 is compulsory.  
(2) Attempt any four out of remaining six questions.  
(3) Draw neat and clean diagrams.  
(4) State your assumptions clearly.  
(5) Illustrate with suitable examples.

1. (a) Develop the class diagram for the following scenario :-  
School has one or more departments. Department offers one or more subjects. A particular subject will be offered by only one department. Department has instructors and instructors can work for one or more departments. Student can enrol in up to 5 subjects in a school. Instructor can teach up to 3 subjects. The same subject can be taught by the different instructors. Students can be enrolled in more than one school. 10
- (b) Realise any of the many-to-many association between two classes of above example using Java code. 10
2. (a) Explain function point Analysis and its relationship with LOC and COCOMO. 10  
(b) Explain the methods of identifying objects for the problem statement. 10
3. (a) Define Design Patterns. Classify Design Patterns. 10  
(b) Explain the process of CMM. 10
4. (a) Elaborate on User Acceptance Testing. 10  
(b) Explain the identification of subsystems and interfaces. 10
5. (a) Explain the various characteristics of the requirements. 10  
(b) Explain software Configuration item identification. 10
6. (a) Explain and compare FIR and walk through. 20  
(b) Explain the process of debugging.
7. Write short notes on (any two) :-  
(a) Version Control and Change Control  
(b) Architectural Styles  
(c) Risk management  
(d) Agile process.

Con. 9596-14.