

End Semester Examinations - 2015-16 Even Semester - May 2016

14CS2042 Software Engineering

Set A

Time : 3 hrs
Total Marks: 100

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1. All software process models can accommodate the generic framework activities but each applies a different emphasis to these activities. How would you categorize the Prescriptive Process Models. Justify with necessary diagrams? (20)

OR
 2. a. Write about Extreme Programming. (10)
b. Write about agile process model. (10)
 3. A set of fundamental software design concepts has evolved over the history of software engineering. Although the degree of interest in each concept has varied over the years, each has stood the test of time. Write about the important software design concepts that span both traditional and object-oriented software development? (20)

OR
 4. Requirements engineering provides the appropriate mechanism for understanding what the customer wants, analyzing need, assessing feasibility, negotiating a reasonable solution, specifying the solution unambiguously, validating the specification, and managing the requirements as they are transformed into an operational system. Explain the distinct tasks of requirement engineering in detail. (20)
 5. Write in detail about the different architectural styles with its brief taxonomy, architectural patterns its organization and refinement in architecture? (20)

OR
 6. Explain the activity performed during formal technical reviews with suitable Guidelines, review reporting, record keeping and its sample driven reviews. (20)
 7. Software Quality Assurance encompasses a broad range of concerns that focus on the management of software quality. Summarize the elements of SQA. (20)

OR
 8. A typical software project consists of multiple software modules that are logically related with each other and coded by different programmers. Explain the testing approaches that are used to test the data communication amongst these modules with neat diagrams. (20)
 9. Differentiate black box testing and white box testing with suitable testing methodologies. (20)

Wishing you All the Best
