Code No: 09A50505

**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY, HYDERABAD**
**B. Tech III Year I Semester Examinations, November/December-2013**
**SOFTWARE ENGINEERING**
**(Common to CSE, IT, ECE)**

Time: 3 hours
Max. Marks: 75

**Answer any five questions**
**All questions carry equal marks**
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1.a)  What is meant by Software Engineering? Discuss the changing nature of software.
 b)  Explain a process frame work and team process models.           [15]

2.a)  Distinguish between incremental process models and evolutionary process models.
 b)  Write the significance and structure of software requirements document.     [15]

3.a)  What is meant by feasibility study? Discuss its importance and explain various types of feasibility studies that may performed on a software project.
 b)  Discuss the role of behavioral models in Software Engineering. Give a suitable example.
                                                                      [15]

4.a)  Explain the software architectural styles and patterns.
 b)  Discuss with an example, how to map data flow into a software architecture.   [15]

5.  Explain clearly the component level design and object constraint language.    [15]

6.a)  Discuss the need for testing a developed software.
 b)  Explain the framework for product metrics.                        [15]

7.a)  Explain the reactive and proactive risk strategies.
 b)  Explain the process of risk identification.                       [15]

8.  Discuss the importance of software quality assurance. Explain clearly the statistical software quality assurance.                                              [15]

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