Code No: 09A50505

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY, HYDERABAD
B. Tech III Year I Semester Examinations, May/June – 2013
Software Engineering
(Common to CSE, IT, E.Comp.E)

Time: 3 hours   Max. Marks: 75

Answer any five questions
All questions carry equal marks
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1.a) Is there ever a case when the generic phases of the software engineering process don't apply? If so, Describe it.
  b) The software myths are slowly fading as the years pass, but others are taking their place. Attempt to add one or two "new" myths to each category.
  c) What is CMMI? Explain in detail.   [5+5+5]

2.a) Which of the software engineering paradigms do you think would be most effective? Why?
  b) Describe functional and non-functional requirements of software.
  c) Define process model. Explain about Spiral model.   [5+5+5]

3.a) How do you validate and manage requirements?
  b) Discuss about object models in detail.   [8+7]

4.a) Explain about various design concepts in detail.
  b) Describe design model in detail.
  c) Give a brief taxonomy of architectural styles and patterns.   [5+5+5]

5.a) Define component-level design. Explain about Object Constraint Language.
  b) What are interface design models? Explain.
  c) Briefly discuss about the golden rules for user interface design.   [5+5+5]

6.a) What is the criteria for completion of testing? Explain.
  b) Define Black box testing. Explain the metrics for testing.
  c) What are metrics for source code and maintenance? Explain.   [5+5+5]

7.a) Describe metrics in the process and project domains.
  b) What are the metrics for software quality? Explain.
  c) Discuss in detail about risk identification.   [5+5+5]

8.   Explain the following:
      a) Cost of quality
      b) Software reviews
      c) The ISO 9000 quality standards
      d) Review guidelines.   [3+3+6+3]

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