

R09

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

- 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]
