JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD
B. Tech III Year I Semester Examinations, March - 2017
SOFTWARE ENGINEERING
(Common to CSE, IT)

Time: 3 hours

Max. Marks: 75

Answer any five questions
All questions carry equal marks
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1.a) Define software. How does the field of software engineering deal with the evolving role of software?
  b) Explain capability maturity model and the process areas required to achieve a maturity level. [8+7]

2.a) Discuss in detail inception and elaboration phases of unified process.
  b) Differentiate between functional and non functional requirements. [8+7]

3.a) What is a traceability matrix? Explain its role in requirements management using an illustration.
  b) What are the different approaches to collaborative requirements gathering?
  c) Demonstrate the usage of context model. [5+5+5]

4.a) Discuss the quality guidelines for design representation.
  b) What is an architecture? Discuss the taxonomy of architectural styles. [8+7]

5.a) Does object constraint language complement unified modeling language? Justify your answer with necessary discussion.
  b) What is the goal of task analysis in user interface design?
  c) Briefly explain the golden rules for user interface design. [5+5+5]

6.a) Differentiate between testing and debugging.
  b) Explain any two approaches for white box testing. [8+7]

7.a) Describe in detail the software quality metrics.
  b) Explain risk management and the use of RMMM plan in this phase. [8+7]

8.a) What is a formal technical review? How does it help in software quality checking?
  b) Explain the activities of software quality assessment team in detail. [8+7]

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