

Code No: 115EM

**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD****B.Tech III Year I Semester Examinations, February/March - 2016****SOFTWARE ENGINEERING****(Common to CSE, IT)****Time: 3 hours****Max. Marks: 75****Note:** This question paper contains two parts A and B.

Part A is compulsory which carries 25 marks. Answer all questions in Part A.

Part B consists of 5 Units. Answer any one full question from each unit.

Each question carries 10 marks and may have a, b, c as sub questions.

**Part- A****(25 Marks)**

- 1.a) Distinguish between software process and project. [2]
- b) Discuss about changing nature of software. [3]
- c) What is meant by system requirements? [2]
- d) Explain about context models. [3]
- e) Write brief notes on data design. [2]
- f) Write about interface design evaluation. [3]
- g) What is meant by debugging? [2]
- h) What is meant by software measurement? [3]
- i) What is meant by software reliability? [2]
- j) Discuss the reactive risk strategy. [3]

**Part B****(50 Marks)**

2. State and explain various software myths. [10]  
**OR**
3. Explain about specialized process models. [10]
4. Explain clearly about software requirements document. [10]  
**OR**
5. State and explain various aspects in requirements validation process. [10]
6. Discuss about mapping dataflow into software architecture. [10]  
**OR**
7. Explain about conducting component level design. [10]
8. Discuss about metrics for design model and source code. [10]  
**OR**
9. Explain clearly about metrics for software quality. [10]
10. Explain about formal technical reviews. [10]  
**OR**
11. Explain about risk projection and risk management. [10]