

**R17****Code No: 842AE****JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD****MCA II Semester Examinations, June/July - 2018****SOFTWARE ENGINEERING****Time: 3hrs****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****5 × 5 Marks = 25**

- 1.a) Describe the changing nature of software. [5]
- b) Explain about requirement elicitation and analysis. [5]
- c) Draw and explain a usecase diagram for college management system. [5]
- d) What are class-oriented metrics? Explain. [5]
- e) Discuss about sample-driven reviews. [5]

**PART - B****5 × 10 Marks = 50**

- 2.a) Distinguish between TSP and PSP.
  - b) What are specialized process models? Explain. [5+5]
- OR**
- 3.a) Distinguish between spiral model and prototyping model.
  - b) What are software myths? Explain in detail. [5+5]
4. What are system models? Explain in detail. [10]
- OR**
- 5.a) Write about feasibility studies.
  - b) Explain about interface specification. [5+5]
- 6.a) What are design concepts? Explain.
- b) Write terms and concepts of class diagrams with examples. [5+5]
- OR**
- 7.a) What is architecture? Why is architecture important?
  - b) What are relationships used in UML? Explain with examples. [5+5]
- 8.a) Explain about architectural design metrics.
- b) What is the process of debugging? Explain. [5+5]
- OR**
- 9.a) Discuss in detail about software quality.
  - b) Describe a strategic approach to software testing. [5+5]
- 10.a) Write about quality concepts in detail.
- b) Distinguish between proactive and reactive risk strategies. Explain software risks. [5+5]
- OR**
- 11.a) Explain in detail about risk projection.
  - b) Discuss about metrics in the process and the project domains. [5+5]