



Code No: 821AK

R15**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) Explain about process patterns. [5]
- b) What are various types of non-functional requirements? Explain. [5]
- c) Discuss about the design process and design quality. [5]
- d) Explain about process metrics and software process improvement. [5]
- e) Describe defect amplification and removal. [5]

PART - B**5 × 10 Marks = 50**

- 2.a) Explain various phases of RAD model. [5+5]
 - b) What are software myths? Explain. [5+5]
- OR**
- 3.a) Explain about personal and team process models. [5+5]
 - b) Describe the changing nature of software. [5+5]
- 4.a) Explain about structured programming language specifications. [5+5]
 - b) Discuss about requirements discovery. [5+5]
- OR**
- 5.a) Describe requirements management planning. [5+5]
 - b) Discuss about state machine models with example. [5+5]
- 6.a) Distinguish between cohesion and coupling. [5+5]
 - b) Explain about task analysis and modeling. [5+5]
- OR**
- 7.a) Describe conducting component-level design. [5+5]
 - b) Give a brief taxonomy of architectural styles. [5+5]
- 8.a) What are metrics for software quality? Explain. [5+5]
 - b) Define verification and validation. Explain organizing for software testing. [5+5]
- OR**
- 9.a) Explain in detail about system testing. [5+5]
 - b) What are debugging strategies? Explain in detail. [5+5]
10. Explain the following: [5+5]
 - a) SQA activities b) Developing a risk table
- OR**
11. Explain the following: [5+5]
 - a) Assessing risk impact b) Statistical SQA

