

R15**Code No: 821AK****JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD****MCA II Semester Examinations, January - 2018****SOFTWARE ENGINEERING****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**5 × 5 Marks = 25**

- 1.a) Write brief notes on process assessment. [5]
- b) Discuss the importance of interface specification. [5]
- c) What are the golden rules in interface design? Explain them. [5]
- d) Write short notes on metrics for testing. [5]
- e) Discuss about formal technical reviews. [5]

PART - B**5 × 10 Marks = 50**

2. Compare the waterfall model and the spiral model. [10]
- OR**
3. Explain CMMI. Describe about team process models. [10]
4. Discuss the significance of non-functional requirements. And also explain how non-functional requirements are classified. [10]
- OR**
5. Explain in detail about requirements validation and requirements management. [10]
6. Discuss about architectural design, architectural styles and patterns. [10]
- OR**
7. What are the advantages and drawbacks in designing conventional components? Explain them clearly. [10]
8. Describe a framework for product metrics and also explain about system testing. [10]
- OR**
9. Write short notes on the following:
a) Validation testing
b) Metrics for source code. [5+5]
10. Explain about RMMM and RMMM plan with a suitable example. [10]
- OR**
11. Describe the software quality assurance activities and its significance. [10]