



Code No: 821AK

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD**MCA II Semester Examinations, December - 2019****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) Define software engineering. Explain the changing nature of software. [5]
- b) Explain how process and issues involved in requirements elicitation. [5]
- c) List out all the golden rules that are used for User Interface Design. [5]
- d) Describe test strategies for Conventional Software. [5]
- e) Discuss about ISO 9000 quality standards. [5]

PART - B**5 × 10 Marks = 50**

2. Explain the incremental process model with advantages and disadvantages. [10]
- OR**
3. With neat diagram explain the rational unified process. [10]
4. Explain in detail about requirements validation and management. [10]
- OR**
5. Write detailed notes on context models and behavioural models. [10]
- 6.a) Illustrate how design models are bridge between system requirements and its implementation. Justify. [5+5]
- b) Discuss about architectural styles and patterns. [5+5]
- OR**
7. Explain about conducting component level design. [10]
8. Explain clearly about metrics for software quality. [10]
- OR**
- 9.a) Differentiate between Black box and White box testing. [5+5]
- b) Briefly discuss about Integration testing strategies. [5+5]
- 10.a) Differentiate between Reactive Vs Proactive risk strategies. [5+5]
- b) What is the significance of formal technical review? Explain. [5+5]
- OR**
11. Explain about risk projection and risk management. [10]

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