

Code No: 812AJ

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD**MCA II Semester Examinations, April/May - 2019****SOFTWARE ENGINEERING****Time: 3 Hours****Max. Marks: 60****Note:** This question paper contains two parts A and B.

Part A is compulsory which carries 20 marks. Answer all questions in Part A. Part B consists of 5 Units. Answer any one full question from each unit. Each question carries 8 marks and may have a, b, c as sub questions.

PART - A**5 × 4 Marks = 20**

- 1.a) Write a short note on Participator myths and its counter reality. [4]
- b) What is an use case diagram? Explain the main purpose of use case modelling. [4]
- c) Explain briefly about various architectural styles. [4]
- d) Differentiate between Black-box and White-box testing techniques. [4]
- e) Explain briefly about various risk components and drivers. [4]

PART - B**5 × 8 Marks = 40**

2. Demonstrate working of evolutionary process models with help of neat diagram. [8]
- OR**
3. Explain briefly about CMMI model. What are generic goals of each level of model? [8]
4. Elaborate working of requirements engineering process in detail. Mention work products of every phase. [8]
- OR**
- 5.a) Write a short note on context based models.
- b) Write a short note on behavioral models. [4+4]
- 6.a) Explain the terms cohesion and coupling in detail.
- b) Explain mapping data flow into software architecture. [4+4]
- OR**
- 7.a) What is Software Architecture? What is importance of architecture?
- b) Explain briefly about Architectural Design procedure. [4+4]
8. Explain briefly about metrics for Design model. [8]
- OR**
9. What is unit testing? Explain about driver and stub procedure in detail. [8]
10. What is Formal technical review? Explain about guidelines to be adopted during review procedure. [8]
- OR**
11. What is a risk? Explain about risk Identification, Refinement, Projection process in detail. [8]