

**Code No: 842AE****JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD  
MCA II Semester Examinations, October/ November - 2020  
SOFTWARE ENGINEERING****Time: 2 Hours****Max.Marks:75**

**Answer any five questions  
All questions carry equal marks**

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- 1.a) Discuss about all the umbrella activities in process framework.
- b) Describe the steps in Evolutionary Model with neat sketch. [7+8]
- 2.a) Describe in detail about the waterfall model with a neat sketch. What are the limitations of it?
- b) Discuss about personal and team process models. [8+7]
3. Describe Requirement engineering process. Discuss about how requirement validation is done? [15]
- 4.a) Distinguish between functional requirements with non-functional requirements.
- b) Demonstrate the Object Models in detail. [8+7]
- 5.a) State how do we assess quality of a software design? How to asses alternative architectural designs?
- b) Enumerate the steps in pattern based software design. [7+8]
- 6.a) Draw the use case diagram for Library Management System.
- b) Differentiate between structural model and conceptual model of UML. [8+7]
- 7.a) Explain about the importance of test strategies for conventional software.
- b) Illustrate White box testing methodology with suitable examples. [8+7]
- 8.a) Define software risks. What are the types of software risks? How to identify the software risks?
- b) Describe the metrics for Software Quality. [8+7]

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