

Code No: 155DB**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD****B. Tech III Year I Semester Examinations, August - 2022****SOFTWARE ENGINEERING****(Common to CSE, IT, ITE)****Time: 3 Hours****Max. Marks: 75****Answer any five questions
All questions carry equal marks**

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- 1.a) Explain CMMI model with a neat sketch.
- b) Give an overview of unified process model. [8+7]
- 2.a) Discuss in brief about the waterfall model.
- b) Explain process patterns and process assessment. [8+7]
- 3.a) Describe five desirable characteristics of a good software requirement specification document.
- b) Give an overview of various system models. [8+7]
- 4.a) Discuss about principal requirements engineering activities and their relationships.
- b) Explain how a software requirements document is structured. [8+7]
- 5.a) Write a short notes on data design.
- b) Describe architectural styles and patterns. [8+7]
6. Explain the following diagrams:
 - a) Class diagrams and sequence diagrams
 - b) Collaboration diagrams and use case diagrams. [8+7]
- 7.a) Describe strategic approach to software testing.
- b) Explain Software quality and metrics for analysis model. [8+7]
8. Illustrate various Metrics for Process and Products. [15]

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