Code No: 155DB

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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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