

**Code No: 125EM****JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD****B. Tech III Year I Semester Examinations, August - 2022****SOFTWARE ENGINEERING  
(Computer Science and Engineering)****Time: 3 Hours****Max. Marks: 75****Answer any five questions  
All questions carry equal marks**

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- 1.a) Explain various phases in incremental process model.
- b) What are process patterns? Explain. [8+7]
- 2.a) Briefly explain about spiral process model.
- b) Discuss about a process framework of software engineering. [8+7]
- 3.a) Discuss about the functional and non-functional requirement.
- b) Describe the requirements elicitation and analysis phases of the requirements engineering process. [8+7]
- 4.a) Distinguish between functional and non-functional requirements.
- b) Explain about object models in detail. [8+7]
- 5.a) Explain the fundamentals concepts of design process.
- b) Summarize the architectural styles and patterns. [8+7]
- 6.a) Describe task analysis and modeling in user interface design.
- b) Discuss concepts of cohesion and coupling. [8+7]
- 7.a) Explain about test strategies for object-oriented software.
- b) What are function-based metrics? Explain. [8+7]
8. Explain the following:
  - a) Risk projection
  - b) Software reviews. [8+7]

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