

II B. Tech I Semester Supplementary Examinations, September - 2021**SOFTWARE ENGINEERING**
(Computer Science & Engineering)

Time: 3 hours

Max. Marks: 75

Answer any **FIVE** Questions each Question from each unit
All Questions carry **Equal** Marks

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- 1 a) Explain Unified process model. [8M]  
b) Discuss about Incremental process model. [7M]
- Or
- 2 a) What is CMMI and explain the levels. [8M]  
b) Explain about Evolution of software engineering methodologies. [7M]
- 3 a) What is Agility? Explain Agile Process model. [8M]  
b) Why is traceability an important aspect of requirement management system models are useful for requirement validation? [7M]
- Or
- 4 a) What is a spike solution in XP? Describe the XP concepts of refactoring and pair programming. [7M]  
b) Give an overview of various steps in requirement engineering process. [8M]
- 5 a) Explain various requirements modeling strategies. [7M]  
b) How to create dataflow model? Explain with example. [8M]
- Or
- 6 a) How to create control flow model? Explain the control specification with state diagram for safe home security function. [8M]  
b) What are the guidelines for identifying responsibilities? Explain collaborations with suitable example. [7M]
- 7 a) What are the architectural design elements? Explain. [8M]  
b) Explain pattern based software design. Suggest a design pattern that you enacted in a category of everyday things (eg: electronics) briefly describe the pattern. [7M]
- Or
- 8 a) Discuss in detail about architectural genres. [8M]  
b) Explain component level design for web apps . [7M]
- 9 a) Discuss briefly about the golden rules. [8M]  
b) Explain test strategies for conventional software. [7M]
- Or
- 10 a) Explain interface analysis and interface design steps. [7M]  
b) Explain the art of debugging with sketch. [8M]

