

**Reg. No:**

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**SIDDHARTH INSTITUTE OF ENGINEERING & TECHNOLOGY:: PUTTUR**  
(AUTONOMOUS)  
**B.Tech III Year I Semester Regular Examinations November/December 2018**  
**SOFTWARE ENGINEERING AND ARCHITECTURE**  
(CSE)

Time: 3 hours

Max. Marks: 60

(Answer all Five Units **5 x 12 = 60** Marks)**UNIT-I**

- 1** Explain the following terms.
- i). Legacy Software 3M
  - ii). Bath-Tub Curve 3M
  - iii). Engineering/Scientific Software 3M
  - iv). Umbrella Activities 3M

**OR**

- 2 a** Explain the term Software Engineering – A Layered Technology. 6M  
**b** Explain about PSP & TSP framework activities. 6M

**UNIT-II**

- 3 a** Explain in detail about Communication Principles/Practices. 6M  
**b** Explain the procedure to initiate the RE process. 6M

**OR**

- 4** What is Use-case? Why it is used? How it helps in analyzing the requirements? Explain with an example. 12M

**UNIT-III**

- 5 a** What is class diagram? Draw the class diagram for ATM system. 6M  
**b** What is the use of CRC diagram? Draw a CRC diagram for floor plan. 6M

**OR**

- 6** Explain about C-Spec & P-Spec and how it helps in solving design issues. 12M

**UNIT-IV**

- 7** Discuss in detail about Software Configuration Management with example. 12M

**OR**

- 8** Explain in detail about System Testing with types in it and how it is done. 12M

**UNIT-V**

- 9** Discuss in detail about the Repositories in Heterogeneous Architectures 12M

**OR**

- 10** Explain Interpreters & Process Control architectures with a neat diagram 12M

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