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SIDDHARTH INSTITUTE OF ENGINEERING & TECHNOLOGY:: PUTTUR
(AUTONOMOUS)**M.Tech I Year I Semester (R16) Regular Examinations December 2016****OBJECT ORIENTED SOFTWARE ENGINEERING**

(Computer Science Engineering)

(For Students admitted in 2016 only)

Time: **3 hours**Max. Marks: **60**(Answer all Five Units **5 X 12 =60** Marks)**UNIT-I**

- Q.1** a. Define Software Engineering and explain about the Software Engineering Paradigm in detail 8M
b. Write short notes on classical life cycle model 4M

OR

- Q.2** a. Discuss the differences among all the SDLC models 8M
b. Write some pros and cons of any SDLC model 4M

UNIT-II

- Q.3** a. Write short notes on Process-Based Estimation and Tool-Based Estimation. 8M
b. Sketch the process of Incremental development process 4M

OR

- Q.4** a. Explain in brief about the software project cost estimation 8M
b. Differentiate between Problem-based estimation and Process-based estimation 4M

UNIT-III

- Q.5** a. Explain the phases in Structured Analysis 6M
b. List and explain major steps in determining requirements for a new system 6M

OR

- Q.6** a. List the goals and elements of Analysis Modeling? 4M
b. Explain the techniques in Domain Analysis 8M

UNIT-IV

- Q.7** a. Explain the method of Functional Programming 8M
b. How OOP helps in Implementation and Testing process 4M

OR

- Q.8** a. Explain about Cyclomatic complexity with an example. 8M
b. Differentiate Control flow testing and Data flow testing. 4M

UNIT-V

- Q.9** a. How Preventive maintenance differ from adaptive maintenance. Explain 8M
b. What are the factors that affect Maintenance Cost 4M

OR

- Q.10** a. Explain the laws in Program evolution dynamics 8M
b. What is System Documentation and list out the contents in it 4M

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