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Total No. of Pages : 01

M.Tech. (IT) (2015 & Onwards)/(CSE Engg.)/(E-Security) (Sem.–1) ADVANCE SOFTWARE ENGINEERING Subject Code : CS-501 Paper ID : [E0681]

Time: 3 Hrs.

Max. Marks: 100

INSTRUCTION TO CANDIDATES :

Total No. of Questions : 08

- 1. Attempt any FIVE questions out of EIGHT questions.
- 2. Each question carries TWENTY marks.
- Q1. Describe the components and quality which is necessary for the documents of software specification. Justify "Increased cohesion and decreased coupling do lead to good software design".
- Q2. Describe the importance of software Engineering. What should be steps taken under the process of developing a software system?
- Q3. What are the differences between verification and validation in software development? Explain the term Configuration management.
- Q4. Write short note on Software failure, Black box testing, White box testing and Stress Testing. What is the difference between cohesion and coupling?
- Q5. Explain the various types of models which are used in software Engineering. Give a description of prototyping model.
- Q6. What is psp? What are the advantages of psp in software engineering? What are the unique characteristics of cleanroom software engineering techniques?
- Q7. What is the concept of Six Sigma? What are the 5 steps of the Six Sigma improvement model?
- Q8. What are various kinds of invariants and rulesets used in UML? What are the different types of implementation terms in UML?