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Total No. of Pages : 01

Total No. of Questions : 08

M.Tech.(CSE Engg. EI-III) (2015 to 2017) (Sem.-3)

**COMPONENT BASED DEVELOPMENT**

Subject Code : MTCS-301

Paper ID : [74159]

Time : 3 Hrs.

Max. Marks : 100

**INSTRUCTIONS TO CANDIDATES :**

1. Attempt any FIVE questions
2. Each question carries TWENTY marks.

- Q1. a) What is meant by a software component? Explain various elements of a software component.
- b) What are COTS? What myths are associated with COTS? Discuss the lessons learnt in component based software development.
- Q2. a) Explain various common high risk mistakes in component based software engineering.
- b) Explain various success factors in component based software engineering.
- Q3. a) How to place software component as business component? Explain with the help of suitable example.
- b) Explain an open process for component-based development. Discuss the role of each step.
- Q4. Explain the following :
- a) From subroutines to subsystems.
- b) Catalysis technique for component infrastructure
- Q5. a) What to measure in software components? Discuss various metrics for software components.
- b) How to select the right COTS software? Discuss with the help of suitable example.
- Q6. a) Explain software component project management process with the help of block diagram.
- b) Explain the maintenance process of component based systems.
- Q7. a) What is meant by designing scalable applications? Explain the Enterprise JavaBeans component model.
- b) Explain CORBA component model with the help of suitable example.
- Q8. Explain the following :
- a) Software Agents
- b) CCM