

Sub-Elective-II : Software Architecture Q.P. Code : 812002

(3 Hours)

[Total Marks : 80

- N.B. : (1) Question number 1 is compulsory.
 (2) **Attempt** any **three** questions out of the remaining five questions.
 (3) Assume suitable data.

1. a) Explain different types of inconsistencies in models. 5
 b) Define the following 10
 - i) Architectural style
 - ii) Architectural patterns
 - iii) Accuracy
 - iv) Precision
 - v) Views
- c) What are different types of connector based on interactive services? 5
2. a) What types of applications are applicable for the following styles and give examples of each 10
 - i) Event based
 - ii) Pipe and filter
 - iii) Layered
 - iv) Blackboard
 - v) Mobile code
- b) How perspective architecture is different from descriptive architecture. Explain with example. 10
3. a) Discuss service oriented architecture (SOA) and web services. 10
 b) Explain various features of xADLs used as modeling language. 10
4. a) Define Architecture analysis? Discuss various analysis goals with an example. 10
 b) Explain various design issues for the following nonfunctional properties 10
 - i. Efficiency and Complexity
 - ii. Scalability and Heterogeneity
5. a) Explain with an example software system mobility and Architecture. 10
 b) Explain with the help of suitable diagram architectural trade off analysis method (ATAM). 10

[TURN OVER]

6. Write a short note on **any two** :
- a) Decentralized Architecture
 - b) Domain and style Specific ADLs
 - c) C2-Architectural style.
 - d) System Stakeholders

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