

B.Tech IV Year I Semester (R09) Supplementary Examinations June 2017

SOFTWARE ARCHITECTURE

(Computer Science & Engineering)

Time: 3 hours

Max. Marks: 70

Answer any FIVE questions
All questions carry equal marks

- 1 (a) Explain in detail the building of architecture business cycle.
(b) Relate the structures to each other and explain Kruchten's four views in detail.
- 2 (a) Write a note on Heterogeneous architectures.
(b) Explain implicit invocation style with neat diagram.
- 3 Consider the case study of building software controlled mobile robot. Describe its challenging problems and design consideration with four requirements. Finally give the solution by layered architecture for all the four requirements.
- 4 (a) Describe and explain SOA and web services.
(b) What is architectural pattern? Explain any one pattern in detail with example.
- 5 (a) What is REST? Explain its architecture.
(b) With the help of an example, explain different types of inconsistencies in an architectural model.
- 6 (a) Explain design issues for non-functional properties-scalability and heterogeneity.
(b) Explain distributed object style in connection with CORBA architecture.
- 7 (a) Differentiate between software architecture and software design.
(b) Describe, why system based analysis is important if you have already completed component and connector level analysis.
- 8 Explain the various types of ADL in detail.
