

9. (a) List and explain different components of Middleware. 7
 (b) Explain different types of Middleware 6

OR

10. (a) What will be the future of software architecture ?
 Explain. 6
 (b) Discuss about Economic Driven Architecture. 7
11. (a) What do you mean by client side technologies. 6
 (b) Write short notes on :
- (i) Client side multi-tier architecture
 (ii) Web Architecture. 8

OR

12. (a) Explain about server side technologies. 7
 (b) Explain the needs of server side technology. 7

Faculty of Engineering & Technology
Seventh Semester B.E. (C.S.E.) (C.B.S.) Examination
Elective—II : SOFTWARE ARCHITECTURE

Time—Three Hours] [Maximum Marks—80

INSTRUCTIONS TO CANDIDATES

- (1) All questions carry marks as indicated.
 (2) Solve Question No. **1 OR** Question No. **2**.
 (3) Solve Question No. **3 OR** Question No. **4**.
 (4) Solve Question No. **5 OR** Question No. **6**.
 (5) Solve Question No. **7 OR** Question No. **8**.
 (6) Solve Question No. **9 OR** Question No. **10**.
 (7) Solve Question No. **11 OR** Question No. **12**.
 (8) Due credit will be given to neatness and adequate dimensions.
 (9) Assume suitable data wherever necessary.
 (10) Illustrate your answers wherever necessary with the help of neat sketches.

1. (a) Describe soft architecture. Explain its need for s/w design. 7
(b) Explain ADL and its tools in brief. 7

OR

2. (a) What is architecture style and architectural pattern ? Also explain difference between them. 6
(b) Explain web application architecture. 4
(c) What are issues regarding scalability and Interoperability ? 4
3. (a) How can we decide the quality of s/w architecture. 6
(b) What do you understand by quality attributes ? Also explain need of quality attributes. 7

OR

4. (a) List and explain the quality attributes in s/w architecture. 6
(b) Write a short note on deriving quality attributes for s/w architecture. 7

5. (a) Explain design pattern and software architecture. 7
(b) What is maintenance management in software architecture ? 6

OR

6. (a) What is chain ways of using patterns ? 6
(b) Write short notes on :
(i) Composite pattern
(ii) Mediator pattern. 7
7. (a) Explain the concept of REST. 6
(b) Describe in brief about the architecture of the architecture of the grid. 7

OR

8. (a) Considering skype describe overlaid peer to peer. 7
(b) Explain Decentralized Architecture. 6