QP Code : **8094**

(3 Hours) [Total Marks : 100]

**N.B.** (1) Question No. **1** is **compulsory**.

(2) Attempt any **four** out of remaining **six** questions.

(3) **Figures** to the **right** indicate **full** marks.

1. (a) Explain how Middleware and component frame-work induces Architectural styles. 5
   (b) What is the difference between one way and round trip mapping. 5
   (c) Explain 4+1 view in UML 5
   (d) Explain Data Access Connector. 5

2. Design a Domain specific software Architecture (DSSA) for "Make My Trip", a vacation 20
   management system. Assume suitable entities, attributes etc. Domain model must consist
   of the following –
   (i) Domain Dictionary and Information Model
   (ii) Feature Model and Operation Model.

3. (a) What is SOA and Web-services. 10
   (b) What is consistency in Analysis. 10

4. (a) Draw framework for classifying connectors and explain it in detail. 10
   (b) Discuss design issues in NFP : Hetroginity and Scalability. 10

5. (a) Explain basic features of xADL used as modeling language. 10
   (b) Explain MVC architectural Pattern and give an example of an application where 10
   it is used.

6. (a) Explain with suitable diagram Architectural Trade off Analysis method. 10
   (b) Name and describe different deployment activities. 10

7. Write short note on any **four** of the followings :– 20
   (a) CORBA
   (b) REST
   (c) Lightweight C2 framework
   (d) Examples and applications applicable to Pipe and filter, Blackboard Architectural
   Styles
   (e) Software degradation.

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**RJ-Con. 9890-15.**