

**M. SC. (I.T.) SEM. – III (C.B.C.S. COURSE) (2015 COURSE) :**  
**WINTER - 2017**

**SUBJECT: SOFTWARE ARCHITECTURE & DESIGN**

Day: **Saturday**  
Date: **16/12/2017**

**W-2017-0921**

Time: **10.00 am to 01.00 pm**  
Max Marks. 60

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**N.B.**

- 1) Attempt any **SIX** full questions.
  - 2) Figures to the right indicate **FULL** marks.
  - 3) Draw neat and labelled diagram **WHEREVER** necessary.
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- Q.1** What are Web Services? Explain various advantages of web services with examples. **(10)**
- Q.2** What is Service Centric Architecture? Explain Enterprise Web Architecture in detail. **(10)**
- Q.3** Explain various characteristics of Good software architecture in detail. Enlist various principles of designing software architecture. **(10)**
- Q.4** Explain various Design Patterns with examples and usage scenarios. **(10)**
- Q.5** What do you understand by 'Cloud Computing'? What are different Service models of Cloud. **(10)**
- Q.6** What is EAI? Explain various roles of middleware for the integration scenario in EAI. Take real time example while explaining the scenario. **(10)**
- Q.7** What is Client-Server architecture? Explain various n – tier architecture with examples in detail. **(10)**
- Q.8** Explain any **TWO** of the following. **(10)**
- a) MVC II
  - b) Database Oriented Middleware
  - c) Digital Nervous System
  - d) RPC

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