

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

SUMMER - 2018

SUBJECT: SOFTWARE ARCHITECTURE & DESIGN

Day: **Friday**
Date: **18/05/2018**

S-2018-1032

Time: **02.30 pm to 05.30 pm**
Max Marks. 60

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** Differentiate between 'Thin Client' and 'Fat Client'. Explain various n – tier Client-Server architecture with examples in detail. (10)
- Q.2** Explain various 'Quality Attribute Scenarios' for software architecture in detail. (10)
- Q.3** What is Hadoop? Explain the concept of distributed architecture and solution provided by Hadoop. (10)
- Q.4** Explain 'Database Oriented Middleware' and 'Transactional Middleware' in detail. (10)
- Q.5** What is XML? Explain the solution scenario provided by XML for EAI, by taking suitable example. (10)
- Q.6** Explain various categories of 'Architectural Structures' in detail. (10)
- Q.7** What is 'Cloud Computing'? Explain the working prototype of 'Google App Engine' acknowledging the delivery model of cloud. (10)
- Q.8** Explain any **TWO** of the following. (10)
- a) SOA
 - b) TIBCO
 - c) 'Software Architecture' Versus 'Software Design'
 - d) MVC

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