

B.SC. (I. T.) SEM. - VI (2011 COURSE) : WINTER - 2017

SUBJECT: UNDERSTANDING SOFTWARE ARCHITECTURE

Day: **Friday**
Date: **15/12/2017**

W-2017-0879

Time: **02.30 PM TO 04.30 PM**
Max Marks. 40

N.B.

- 1) Attempt any **FIVE** full questions.
 - 2) Figures to the right indicate **FULL** marks.
 - 3) Draw neat diagram **WHEREVER** necessary.
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- Q.1** Different stakeholders have different expectations from an architecture document. Explain those views in detail. (08)
- Q.2** Draw a detailed diagram that summarizes the availability tactics & explain them in detail. (08)
- Q.3** a) Compare 'System architecture' & 'Software architecture'. (04)
b) Explain 4 architectural structures in brief. (04)
- Q.4** a) What are different 'Quality Attribute Scenarios'? Explain them in detail. (04)
b) Write a short note on 'Quality Attribute Scenarios in practice'. (04)
- Q.5** a) What is Architecture Business Cycle? What are the factors that affect ABC, explain. (04)
b) What are the process recommendations & product recommendations that evolve into good architecture? (04)
- Q.6** Explain architecture for the A – 7E Avionic using any of the following 2 structures (08)
a) Decomposition structure
b) Uses structure
c) Process structure
- Q.7** a) Explain process view with diagram for Air Traffic Control system. (04)
b) How fault tolerance is achieved using PAS & SAS? Explain. (04)
- Q.8** Explain the following pair of relationships. (08)
a) Architecture & Quality
b) Functionality & Quality