

B.SC. (I. T.) SEM. - VI (CBCS - 2015 COURSE) : SUMMER - 2018

SUBJECT: SOFTWARE ARCHITECTURE AND DESIGN

Day: **Thursday**
Date: **17/05/2018**

Time: **10.00 a.m. to 01.00 p.m.**
Max. Marks: 60

S-2018-0961

N.B:

- 1) Attempt **ANY SIX** questions.
 - 2) Figures to the right indicate **FULL** marks.
 - 3) Draw neat diagram **WHEREVER** necessary.
-

- Q.1** Explain the following concepts with suitable examples. (10)
- a) Software Architecture and Design
 - b) Software Design Strategy
- Q.2** Why we need multiple viewpoints for software design? Justify your answer (10) with suitable example.
- Q.3** Design a Domain Specific Software Architecture (DSSA) for 'Make My Trip', (10) a vacation management system.
- Q.4** What is Software Architectural Structure? Explain Kruchten's 4+1 view (10) models for choosing structure.
- Q.5** What is A7E Avionics system? Explain different processes and uses structure (10) in the context of A7E Avionics system.
- Q.6** Explain following architectural models with suitable examples (**ANY TWO**): (10)
- a) Real time system control model
 - b) Compiler Model
 - c) OSI Model
 - d) Distributed System Model
- Q.7** Explain different phases of Evolutionary Delivery Model. Explain its (10) advantages and disadvantages.
- Q.8** Explain the Cost Benefit Analysis Method (CBAM) and mention the reason (10) why it is useful for any organization?

* * * * *