Total No. of Questions :6]

P4189

SEAT No. :

[Total No. of Pages :2

[5255] - 687

M.E. (Computer Engineering)
SOFTWARE DESIGN AND ARCHITECTURE
(2013 Pattern) (Semester - II) (510108)

Time : 3 Hours]   *[Max. Marks :50*

Instructions to the candidates:

1) *Solve question number 1 or 2, 3 or 4 and 5 or 6.*
2) *Neat diagrams must be drawn whenever necessary.*
3) *Figures to the right indicate full marks.*
4) *Assume suitable data, if necessary.*

Q1) a) How is Software Architecting different from Software Designing. **[8]**

b) When and why is it important to describe multiple architectural views?**[8]**

OR

Q2) a) State and explain any Five benefits that a business and an IT organization can derive from a sound software architecture. **[8]**

b) Describe the role of the architectural concept in knowledge transfer. What are the different types and challenges of knowledge. **[8]**

Q3) a) What are Component-and-Connector styles? Give examples of variation in implementation of the Component-and-Connector Styles. **[8]**

b) Explain Views, Viewtypes and Styles. For a particular system how are the relevant views identified? Explain with an example. **[8]**

OR

Q4) a) Explain the two styles of interaction oriented software architecture, (MVC) Model - View-Controller and (PAC) Presentation-Abstraction-Control.**[8]**

b) Explain (SOA) Service Oriented Architecture with its advantages. Give its applications in Web Services. **[8]**

P.T.O.

Q5) a) Explain layered architecture in Hierarchal architectures and comment on its application domain. **[9]**

b) Define Customer Relationship Management (CRM). Discuss about CRM approaches and tools. **[9]**

<div align="center">OR</div>

Q6) a) Describe Quantity archetype pattern and Rule archetype pattern with example. **[9]**

b) Explain (MDA) Model Driven Architecture. What all steps are requried to configure and automate it. **[9]**

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