

Total No. of Questions :12]

SEAT No. :

P1792

[4859]-194

[Total No. of Pages :3

B.E (Information Technology)
b:SOFTWARE ARCHITECTURE
(2008 Course) (Elective - III) (Semester - II)

Time : 3 Hours]

[Max. Marks :100

Instructions to the candidates:

- 1) Answer 3 questions from section I and 3 questions from section II.*
- 2) Answers to the two sections should be written in separate answer books.*
- 3) Figures to the right indicate full marks.*
- 4) Make suitable assumptions wherever relevant and appropriate.*

SECTION - I

- Q1)** a) How Architectures are influenced by System Stakeholders and the developing organization. **[9]**
- b) Explain in details ramifications of influences on an Architecture. **[9]**

OR

- Q2)** a) What are the points which makes Good Architectures? **[9]**
- b) Explain in details Software Structures. **[9]**
- Q3)** a) Explain and illustrate the following concepts (in context of quality attributes) with example: **[8]**
- i) Quality Attribute Scenarios
- ii) Availability Scenarios
- b) Explain in details: **[8]**
- i) Business Qualities
- ii) Architecture Qualities

OR

P.T.O.

- Q4)** a) Write short note on following: [8]
i) Modifiability Tactics
ii) Usability Tactics
b) Give scenario for Security and Testability quality attribute. [8]

- Q5)** a) What can a Facade pattern do for us,. Illustrate with an example. [8]
b) With structure explain observer pattern. Give examples of the same. [8]

OR

- Q6)** a) What can a Mediator pattern do for us. Illustrate with an example. [8]
b) With structure explain Singleton pattern. Give examples of the same.[8]

SECTION - II

- Q7)** a) Compare Different architecture styles. [9]
b) Write short note on following: [9]
i) Coupling in XML.
ii) Structure of XML.

OR

- Q8)** a) Explain three tire architecture with reference with to presentation, business and persistence layers. [9]
b) Explain concept of: [9]
i) Loose coupling.
ii) Addressing quality attributes through multi tire architecture.
Q9) a) Explain EJB Architecture in detail. Describe entity, Session and Message beans in detail. [8]
b) Write short note on following: [8]
i) Web services
ii) Message Beans

OR

- Q10)a)** Explain Web Server in detail with example. [8]
- b) Explain with example: [8]
- i) Entity Beans
 - ii) Session Beans
- Q11)a)** Explain DLL Servers in detail. [8]
- b) Write short note on following: [8]
- i) Components and Interfaces.
 - ii) .Net Remoting.

OR

- Q12)a)** Describe .NET Architecture. What is role of CLR, CLS, CTS and CLI in it? [8]
- b) Write short note on following: [8]
- i) .NET assemblies
 - ii) .NET web services

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