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**Question Paper Code : 83335**

**M.E./M.Tech. DEGREE EXAMINATION, MAY/JUNE 2016**

**Elective**

**Computer Science and Engineering (With Specialization in Networks)**

**(Common to M.E. Computer Science and Engineering/M.E. Software Engineering/M.Tech. Information Technology)**

**CP 7028 – ENTERPRISE APPLICATION INTEGRATION**

**(Regulations 2013)**

**Time : Three Hours**

**Maximum : 100 Marks**

**Answer ALL questions.**

**PART – A (10 × 2 = 20 Marks)**

1. Mention four requirements for EAI.
2. Mention any four challenges in EAI.
3. How does publish/subscribe free an application from the need to understand anything about the target application ?
4. Point-to-point middleware does not work well with many applications. Justify the statement.
5. Differentiate service choreography and orchestration.
6. Write a SOAP message that contains the name (Get Stock Value) of the method as well as an input parameter value (Audi).
7. Mention four fundamental challenges in message based integration.

8. Differentiate synchronous and asynchronous messaging.
9. Why does the communication protocol mismatch problem arise ?
10. Schematically differentiate data enrichment and distribution and provide real world examples.

**PART – B (5 × 16 = 80 Marks)**

11. (a) Explain the various EAI implementation approaches.

**OR**

- (b) Explain how EAI can be integrated with legacy systems and partners.

12. (a) Elaborate on the architecture for application integration.

**OR**

- (b) Explain the challenges in performance, security and reliability.

13. (a) Provide a detailed description of the various elements and structure of BPEL.

**OR**

- (b) Explain the components of a typical Business process integration solution, its goals and functioning in detail.

14. (a) When bandwidth that can support RPCs is absent, or in a situation where a server cannot be depended upon to always be up and running, what is the better choice over RPC for an application integration project? Explain the model with suitable diagrams.

**OR**

- (b) How does JMS provide message transport services for Java? Explain the three main entities, message structure and messaging models of JMS.

15. (a) Explain the three kinds of ESBs available in the market and their related products. Mention the main advantages of each.

**OR**

- (b) With neat diagrams explain the four known configurations for deploying ESBs.