

VALLIAMMAI ENGINEERING COLLEGE
DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING
QUESTION BANK
M.E III SEM CSE
CP7028-ENTERPRISE APPLICATION INTEGRATION

Unit-I - INTRODUCTION

2-marks

1. What is EAI?
2. Need for EAI?
3. How is EAI different?
4. List out advantages of EAI?
5. List out disadvantages of EAI?
6. What are the enterprise need EAI?
7. What is the types of integration based on architecture ?
8. Define EAI process?
9. Define legacy system?
10. What are the technologies used to build EAI?
11. What are characteristic of legacy system?
12. Requirement of EAI?
13. Challenges of EAI?
14. Types of data integration approaches?
15. What is middleware?
16. What are the different forms of middleware?
17. Define enterprise service bus?
18. What are requirement of SOA?
19. What is ETL?
20. Need for messaging?

16-marks

1. Draw the architecture of EAI and explain in detail with suitable example?
2. Explain in detail about four common types of integration?
3. Explain in detail steps to be followed in EAI?
4. Explain in detail about challenges of EAI?
5. Explain in detail about patterns of EAI?
6. Define legacy system , explain the integration with legacy system?
7. Explain in detail about requirement of middleware?
8. Explain in detail SOA with neat diagram?
9. Write a shorts on 1) Difference between shared and distributed data?
2) direct data integration?
10. Explain the various integration approaches and implementation of EAI?

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Unit –II-INTEGRATION PATTERNS

2-marks

1. Draw the pattern diagram for integration style?
2. What is scatter-gather?
3. Need for enterprise integration?
4. What is correlation?
5. List out the challenges of enterprise integration pattern?
6. What is point -to- point channel?
7. What are the four main approaches of integration pattern?
8. List out any five types of integration styles?
9. Define broker?
10. Advantages of message bus?
11. List out any two challenges in performance?
12. List out any two challenges in security?
13. List out any two challenges in reliability?
14. What is an architecture that enables separate applications to work together, but in a decoupled fashion such that applications can be easily added or removed without affecting the others?
15. How can the sender broadcast an event to all interested receivers?
16. What are the types for implementing integration pattern?
17. Comparisons between notification and application.
18. Draw the pattern for Publish/Subscribe using the Pull Model?
19. What is mean by messaging gateway?
20. What are the patterns available for message transformation?

16-marks

1. Explain various patterns of integration ?
2. Explain the architecture for application integration?
3. Explain the working of born trading system?
4. Explain point-to- point integration architecture?
5. Explain in detail about challenges in performance?
6. Explain in detail about challenges in security?
7. Explain in detail about challenges in reliability?
8. Explain in detail about architecture that enables separate applications to work together, but in a decoupled fashion such that applications can be easily added or removed without affecting the others?
9. How can you decouple the destination of a message from the sender and maintain central control over the flow of messages?
10. Explain detail about Publish/Subscribe with suitable Example?

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Unit-III- SERVICE ORIENTED INTEGRATION (SOI)

2 marks.

1. What is Service oriented integration?
2. What is *Business Process Integration* (BPI)?
3. Define Integration Barriers?
4. Define composite application?
5. What is web service and give examples?
6. List out some web service protocols?
7. Define orchestration?
8. Difference between service choreography and orchestration?
9. Define business process modeling?
10. What is the purpose of business process modeling?
11. What are the types of business processes?
12. Define BPMN?
13. What is business process execution?
14. What is BPEL?
15. List out BPEL design goals?
16. Define middleware infrastructure with example?
17. What is business process reengineering with diagram?
18. Define business process management?
19. Difference between BPMN and BPEL?
20. Define scope of BPEL?

16 marks

1. Explain in detail about business process integration with suitable example?
2. Explain in detail about composite application?
3. Write short notes:
 - a) Web services
 - b) Service choreography and orchestration.
4. Explain in detail about business process model and its notation?
5. Explain about business process execution and list out its languages?
6. Explain in detail about BPMN with suitable example?
7. Define BPEL, explain in detail?
8. Explain in detail about business process management?
9. Define middleware infrastructure, explain in detail?
10. Explain luxury travel service Provider Company with suitable example?

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UNIT -IV – MESSAGING BASED INTEGRATION

2 marks

1. Define Message Based Integration
2. List out characteristics of messaging
3. Define concepts of key integration
4. What is Asynchronous Message-Based Integration?
5. Difference between synchronous and asynchronous MBI?
6. How to structure a message?
7. List out some properties of message structure?
8. What is Message-oriented middleware ?
9. Advantages and disadvantages of MOM?
10. What are the categories of Middleware?
11. How to Construct of loosely coupled distributed application methods.
12. Message queuing system vs email system?
13. List out the metrics of reliability mechanisms?
14. What is the format of Asynchronous Message?
15. What is the format of synchronous Message?
16. Define java messaging services?
17. What are the elements of JMS?
18. What are the two models in JMS?
19. What are the challenges in reliability mechanisms?
20. What is the benefits of online infrastructure?

16-marks

- 1.a. Comparison between synchronous and asynchronous?
b. write a shorts on point-to-point message based model?
2. Explain in detail about MOM?
3. Explain in detail about reliability mechanisms?
4. Explain in detail about challenges in reliability mechanisms?
5. Explain in detail about message structure?
6. Explain in detail about JMS?
7. Explain in detail about message infrastructure with suitable example?
8. Explain in detail about XML based chain integration?
9. Explain in detail about message queuing model?
10. Explain various message model in MOM?

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Unit-V –ENTERPRISE SERVICE BUS

2 –marks

1. Define ESB?
2. What are the capabilities of ESB?
3. Define routing?
4. Define protocol transformation?
5. Difference between federated and brokered in ESB?
6. Define data enrichment?
7. What is the service of data enrichment?
8. What do you mean by monitoring in ESB?
9. What are the types of monitoring?
10. What are the sections of monitoring?
11. Define correlation identifier?
12. List out the characteristics of ESB?
13. What are the benefits of ESB?
14. List out the disadvantages of ESB?
15. What is mean by SOA
16. What are the role of SOA
17. List out the benefits of SOA?
18. Why ESB and SOA is needed?
19. What is event based integration?
20. Difference between message based and integration?

16-marks

- 1.Explain in detail about ESB with suitable example?
- 2.Explain in detail about message based integration?
- 3.Write short notes on a) message brokered in ESB b) federated in ESB?
4. Explain detail about application message based integration?
5. Explain detail about event based integration?
6. Explain in detail about hardware based integration?
7. How to ESB support to SOA?
- 8.Explain deployment configuration 1) file 2)properties
9. Explain Lightweight service bus technologies in ESB?
- 10.write a short notes on routing, scalable connectivity ,protocol, message transformation?