

**B.E., DEGREE EXAMINATIONS: MAY/JUNE 2013**

Eighth Semester

**COMPUTER SCIENCE & ENGINEERING**

ITY124 : Building Enterprise Application

**Time: Three Hours**

**Maximum Marks: 100**

**Answer all the Questions:-**

**PART A (10 x 1 = 10 Marks)**

1. The biggest challenge in \_\_\_\_\_ in an enterprise is the lack of 'single source of truth' due to multiple versions, copies and representations of the same data in existence within the system at any given point of time.
  - a) Business process automation
  - b) Data harmonization
  - c) Application integration
  - d) Internationalization
2. \_\_\_\_\_ skill is needed to find an optimal solution to the problem at hand.
  - a) Programming
  - b) Architecture and designing
  - c) Program management
  - d) Business analysis
3. For a calculator software the following is / are nonfunctional requirements
  - a) Accuracy
  - b) performance
  - c) usability
  - d) Both b and c
4. \_\_\_\_\_ and \_\_\_\_\_ should be captured to illustrate the recoverability requirements of the system.
  - a) RTO and RPO
  - b) RTO and PRO
  - c) RDO and RPO
  - d) RDO and PRO
5. For an enterprise application development \_\_\_\_\_ is one of the primary needs for auditing and debugging purpose.
  - a) fogging
  - b) logging
  - c) secrecy
  - d) privacy
6. \_\_\_\_\_ and \_\_\_\_\_ are example of commercial and open source directory server products.
  - a) Sun Java directory server, Microsoft active directory server
  - b) Adobe directory, Macromedia server
  - c) Macromedia directory server, Microsoft active directory server
  - d) Arlington directory server, Zima directory server

7. Package structures should follow \_\_\_\_\_ and \_\_\_\_\_ principle, while grouping different application components.
  - a) Cohesive, transitive
  - b) Associative, transitivity
  - c) Mutually exclusive, collectively exhaustive
  - d) Coupling, cohesion
8. Struts, JSF, Tapestry and stripes are example frameworks to construct \_\_\_\_\_ layer.
  - a) business
  - b) Data access
  - c) Presentation
  - d) Physical
9. \_\_\_\_\_ is the last level of testing in the testing phase.
  - a) System testing
  - b) Acceptance testing
  - c) Integration testing
  - d) Production testing
10. The acceptance criteria for the enterprise application should be worked out with the \_\_\_\_\_ in the early life cycle phases of the application development.
  - a) end user
  - b) tester
  - c) developer
  - d) designer

**PART B (10 x 2 = 20 Marks)**

11. What are the challenges faced by enterprise applications to meet out the promises of today's enterprise?
12. What do you mean by Extreme Programming?
13. State the activities needed for incepting an enterprise application.
14. List the important elements of SRS.
15. What is a View and Viewpoints in enterprise application?
16. State the key elements in SAD.
17. State the common dilemma of a developer while coding.
18. What do you mean by code profiling?
19. Define White and Black Box testing.
20. What do you mean by Rolling rollout in Enterprise Applications?

**PART C (5 x 14 = 70 Marks)**

21. a) What do you mean by Business Process Reengineering? Explain its relationship with Enterprise Resource Planning

**(OR)**

- b) State the various key determinants of successful enterprise applications and discuss about typical knowledge & skill areas required by a team engaged in raising enterprise applications.

22. a) (i) State the activities performed by a business analyst as a part of enterprise analysis. (4)
- (ii) Consider a loan management system, Imagine your own scenario for this and draw the use case diagram and illustrate the various relationships among actors. (10)

**(OR)**

- b) (i) Discuss about how requirement validation is carried out by the business analyst to ensure the requirements are meeting the business objectives? (7)
- (ii) Write a short note on planning and estimation involved in enterprise analysis. (7)

23. a) (i) Draw and explain The Open Group Architecture Framework (7)
- (ii) Draw the block diagram for general logical structure of an enterprise application and brief about it. (7)

**(OR)**

- b) (i) Discuss about Relational Data Modeling in detail (7)
- (ii) Write a note on IT Hardware, Software and Middleware in the context of Infrastructure Architecture and design. (7)

24. a) (i) State and explain various activities that are necessary before getting into the construction activities in the context of enterprise application. (7)
- (ii) Explain about Data Access Layer components of an enterprise application (7)

**(OR)**

- b) (i) Write a short note on Code review in the context of constructing Enterprise application. (7)
- (ii) Discuss about Static Code Analysis in detail (7)

25. a) With suitable block diagram explain the following
- i) Various Testing Levels
  - ii) Various Testing approaches
  - iii) Performance Testing

**(OR)**

- b) With suitable block diagram explain the following testing's
- i) Penetration Testing
  - ii) Globalization Testing
  - iii) User Acceptance Testing

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