

B.TECH DEGREE EXAMINATIONS: NOV/DEC 2012

Seventh Semester

INFORMATION TECHNOLOGY

ITY124: Building Enterprise Applications

Time: Three Hours

Maximum Marks: 100

Answer all the Questions:-

PART A (10 x 1 = 10 Marks)

1. The negotiation between the business requirements and the functionalities of a package is
 - a) ERP
 - b) Business Intelligence
 - c) Gap Analysis
 - d) All of the above
2. The degree to which a system is easy to learn and use is referred as
 - a) Usability
 - b) Validity
 - c) Scalability
 - d) Functionality
3. Modifying existing software systems to meet new requirements
 - a) Software design
 - b) Software validation
 - c) Software evolution
 - d) Software specification
4. Estimation of a project includes
 - a) Lines of Code
 - b) Function Points
 - c) Efforts for execution
 - d) All of the above
5. Functional integration in a distributed application can be achieved by
 - a) HTML
 - b) RMI
 - c) JDBC
 - d) XML
6. The blueprint for the design process
 - a) SAD
 - b) UCS
 - c) SRS
 - d) NFR
7. The pattern used in the design of data access layer
 - a) Session Façade
 - b) MVC
 - c) DAO
 - d) Business Delegate
8. The following is a build tool
 - a) Apache Ant
 - b) Apache JMeter
 - c) Loadrunner
 - d) WebScarab
9. The performance of a system can be corrected in
 - a) Application code
 - b) Database

- c) Infrastructure
d) All of the above
10. Defect is
- a) An error during testing
b) An error after the system is rolled out
c) An error during design
d) None of the above

PART B (10 x 2 = 20 Marks)

11. What is an enterprise?
12. What is the need for domain knowledge in developing an enterprise application?
13. List the difference between 'extend' and 'include' relationships that exist among use cases.
14. What are the ways to estimate requirements validation?
15. Define an application framework.
16. What is middleware?
17. List the prerequisites for starting the construction phase.
18. What are the objectives of code review?
19. What is the importance of regression testing in an iterative development process?
20. Mention the strategies for rolling out enterprise applications?

PART C (5 x 14 = 70 Marks)

21. a) Explain Business Process Reengineering. Describe its role in the IT industry.
(OR)
b) Explain the various software engineering methodologies.
22. a) (i) Explain the concept of Business Modeling. (4)
(ii) Prepare the Use Case Diagram for a railway reservation system. Design the UCS document with all necessary elements. (10)
(OR)
b) Explain the various non-functional requirements of an enterprise application.
23. a) Explain the typical components of an infrastructure layer of enterprise application.
(OR)
b) Explain the design of data architecture in an enterprise application.
24. a) Describe one framework per layer used to build the application layers.
(OR)

b) Explain the significance of static and dynamic code analysis.

25. a) Explain various testing performed at different levels in the application environment.

(OR)

b) Consider a Loan Management System. Design test cases for login, logout, submission and approval at all the testing levels.
