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BE Degree Examination December 2022

Fifth Semester

Computer Science and Engineering

20CSE03 – BUILDING ENTERPRISE APPLICATIONS

(Regulations 2020)

Time: Three hours

Maximum: 100 marks

Answer all Questions

Part – A (10 × 2 = 20 marks)

1. Name the any four activities involved in incepting an Enterprise Application. [CO1,K1]
2. How does adherence to budget and schedule lead to successful enterprise application? [CO1,K1]
3. List any four domains of an enterprise architecture frame work. [CO2,K1]
4. State the purpose of object relational mapping (ORM) in the implementation of data access layer. [CO2,K2]
5. What is virtualization? [CO3,K1]
6. Mention the role of rules engine in an enterprise application. Name any two rules engines. [CO3,K2]
7. Relate the Enterprise application testing matrix distributed across the development life cycle. [CO4,K1]
8. What do you mean by dependency injection? [CO4,K1]
9. Highlight the objective of user acceptance testing. [CO5,K1]
10. When do you prefer up-down-up rollout? [CO5,K1]

Part – B (5 × 16 = 80 marks)

11. a. Imagine you are a project leader of an Enterprise application. You have to recruit team members for developing that project. What are the skills required to develop the project? How do you recruit team members? Explain. (16) [CO1,K3]

(OR)

- b. i) Construct the use case specification document for “initiate loan” use case. (8) [CO1,K3]
- ii) Explain the various activities to be performed by a business analyst during enterprise analysis. (8) [CO1,K3]
12. a. i) Illustrate different kinds of relationships that may exist among classes in object oriented paradigm. (8) [CO2,K2]
- ii) Explain the best practices used to design the technical layers of an n-tire enterprise application. (8) [CO2,K2]

(OR)

- b. KYB is a leading global bank, head quartered in Coimbatore. It offers various services to customers. The core banking segment offer loans to its retail customers. In order to current business trends, the bank management decided to expand the loan services to customers through multiple channels. At earlier stage bank issue loan only through bank branch. The pre approved loan amount is decided based on customer relationship with the bank. All the verification and approval processes are done by the bank representatives. There is no external agency interface to provided customer credit rating. Now the bank management would like to upgrade the system. To meet our current trends the management introduces customate loan offering system to new customer via bank branches and internet. To get a loan a customer has to register and fill the particulars either through the internet or bank representatives. The information about preapproved loan amount will be made available to the customer at the time of loan initiation. The customer can either choose to go with the preapproved loan amount or opt for a higher amount by placing a request for enhancement of the loan amount. Draw technical architecture. (16) [CO2,K2]

13. a. i) How do you document the results of architecture and design phase which are essential during the construction phase of your own application development. (8) [CO3,K3]
- ii) Networking, communication protocols and IT hardware and software play a crucial role in the operation of an enterprise application. Explore the building blocks of the above. (8) [CO3,K3]

(OR)

- b. Consider a tourism management system to demonstrate the interaction between business delegate and business service with a neat sketch. Also explain the steps to perform request processing in the business layer. (16) [CO3,K3]

14. a. i) State the objectives of static code analysis. (8) [CO4,K2]
- ii) How does code profiling help in tuning the performance of an application. (8) [CO4,K2]

(OR)

- b. Enumerate the list of typical elements that are setup as part of a development environment. (16) [CO4,K2]

15. a. Demonstrate the test cases used in globalization testing and user acceptance testing. (16) [CO5,K2]

(OR)

- b. Consider an exam registration process test case. Apply the globalization and user acceptance testing. (16) [CO5,K2]

Bloom's Taxonomy Level	Remembering (K1)	Understanding (K2)	Applying (K3)	Analysing (K4)	Evaluating (K5)	Creating (K6)
Percentage	16	52	32	-	-	-