I – 50952

Register No. | | | | | | | | |

BE Degree Examination May 2022

Sixth Semester

Computer Science and Engineering

18CSE06 – BUILDING ENTERPRISE APPLICATIONS

(Regulation 2018)

Time: Three hours | Maximum: 100 marks

Answer all Questions

Part – A (10 × 2 = 20 marks)

1. List any four activities for incepting an enterprise application. [CO1,K1]
2. Write the three key determinants of successful enterprise applications. [CO1,K1]
3. According to TOGAF, Demonstrate the four sub architecture of domain of enterprise architecture. [CO2,K1]
4. Differentiate SOAP based web service from REST based web service. [CO2,K2]
5. Write the disadvantages of SaaS. [CO3,K1]
6. List the four major building blocks of infrastructure architecture. [CO3,K1]
7. What do you mean by dependency injection? [CO4,K1]
8. Name the tools used for static and dynamic code analysis. [CO4,K1]
9. How does endurance testing helpful for memory related issues of enterprise application? [CO5,K1]
10. Highlight the objective of user acceptance testing. [CO5,K1]

Part – B (5 × 16 = 80 marks)

11. a. i) Summarize the challenges faced by enterprise application in order to keep up to promises of today enterprise application. (8) [CO1,K2]

    ii) Outline typical knowledge and skill areas required by a team engaged in raising enterprise application. (8) [CO1,K2]

(OR)

b. i) Prepare the use case specification document for "outpatient" usecase in healthcare system. (8) [CO1,K3]

    ii) Construct the "to-be" business process model for loan management system. (8) [CO1,K3]

12. a. Draw the sequence diagram to show the loan initiation process in LoMS enterprise application. Also explain how the entire sequence of activities happens in the infrastructure layer and presentation layer with the help of above example. (16) [CO2,K3]

(OR)

b. i) Explain briefly the design aspect of data access layer. (8) [CO2,K2]

ii) Draw architecture diagram of infrastructure service layer. Also explore the interaction between various elements in the architecture. (8) [CO2,K2]

13. a. i) Draw the block diagram of virtualization. Also, explain elements in the architecture. (8) [CO3,K2]

ii) Define middleware. Distinguish between message oriented middleware and RPC middleware. (8) [CO3,K2]

(OR)

b. Consider an 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) Explain briefly how does code profiling help in tuning the performance of an application. (8) [CO4,K2]

ii) Explore dynamic code analysis with appropriate examples. (8) [CO4,K3]

(OR)

b. Describe the various presentation layer components available for enterprise application development. (16) [CO4,K2]

15. a. Outline the different strategies for rolling out enterprise applications. Also, summarize the key prerequisites for successful applications roll out. (16) [CO5,K2]

(OR)

b. Consider an outpatient registration process test case. Apply the globalization testing and user acceptance testing for the same. (16) [CO5,K3]

Bloom's Taxonomy Level	Remembering (K1)	Understanding (K2)	Applying (K3)	Analysing (K4)	Evaluating (K5)	Creating (K6)
Percentage	10	50	40	-	-	-