Month and Year : September 2022	Roll Number:
Programme : B.E Branch : CSE Semester : V	Date : 21.09.2022 Time : 10.00 am to 12.00 Noon
Course Code : 20CSE03 Course Name : Building Enterprise Applications	Duration : 2 Hours Max. Marks : 60

PART - A (10 × 2 = 20 Marks)
ANSWER ALL THE QUESTIONS

1.	Give any four examples of Enterprise applications.	[CO1]	[K1]
2.	Mention the stages in life cycle of Enterprise Application.	[CO1]	[K1]
3.	Point out the needs of requirement validation in Requirement Elicitation and Analysis.	[CO1]	[K1]
4.	Differentiate waterfall model and iterative model.	[CO1]	[K2]
5.	Define view and view points.	[CO2]	[K1]
6.	What is transaction isolation level?	[CO2]	[K1]
7.	Draw the sequence diagram for the ATM card verification. Once the card is inserted by the ATM Customer to the ATM, the ATM verifies the card with the Bank. If the card is valid, the ATM asks the ATM Customer for the PIN. If the card is invalid, the ATM ejects the card. **Anyway** the ATM Customer enters the PIN.	[CO2]	[K3]
8.	How does prefetching differ from and lazy loading in caching?	[CO2]	[K1]
9.	Mention the purpose of DNS.	[CO3]	[K1]
10.	List the different type of middleware.	[CO3]	[K1]

Part – B (4 × 10 = 40 Marks)
ANSWER ANY FOUR QUESTIONS

11.	The process begins with the sales representative receives a purchase order from a customer and proceeds to check the stock level. If there is enough stock on hand to meet with the order, the sales representative will pack them. The process ends with shipping them along with an invoice. In case of insufficient stock, the sales representative will suggest the customer to amend the purchase order. The business has grown so much that they now have a warehouse and dispatch section. The stocks are placed in ware house and the dispatch section check the items and dispatch the ordered items and invoice to the customer. So the sales representative send the purchase order to stock Manager, he proceeds to check the stock level. If there is enough stock on hand to meet with the order, the stock Manager will pack them and sent the packed items and invoice to dispatch section. Draw and explain the as –is, to-be business process for the above scenario.	(10)	[CO1]	[K3]

12.		Draw the use case diagram for the following system. Identify actors, use cases and association between the actors and use cases. To conduct an exam, an instructor first notifies the students of the exam date and the material to be covered. She (instructor) then prepares the exam paper (with sample solutions), gets it copied by the supporting staff to produce enough copies for the class. She hands it out to students on the designated time and location. The students write their answers to questions and hand in their papers to the instructor. The instructor then gives the exam papers to the TAs, along with sample solutions to each question, and gets them to mark it. She then records all marks and returns the papers to the students.	(10)	[CO1]	[K3]
13.		Draw the logical architecture of railway reservation system and explain the each layer in the architecture.	(10)	[CO2]	[K3]
14.	i)	How to measure the success of Enterprise applications?	(5)	[CO1]	[K2]
	ii)	Compare relational data model and XML data Modelling.	(5)	[CO2]	[K2]
15.		Draw the business layer of technical architecture and explain in detail.	(10)	[CO2]	[K2]
16.		Mention the elements of infrastructure architecture and explain the elements with the help of diagram.	(10)	[CO3]	[K2]

Bloom's Taxonomy Level	Remembering (K1)	Understanding (K2)	Applying (K3)	Analysing (K4)	Evaluating (K5)	Creating (K6)
Percentage	20	40	40	-	-	-

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CONTINUOUS ASSESSMENT TEST 2

(Regulations 2020)

Month and Year : November 2022	Roll Number: 20CSR129
Programme : B.E Branch : CSE Semester : V	Date : 24.11.2022 Time : 02.15pm to 4.15pm
Course Code : 20CSE03 Course Name : Building Enterprise Applications	Duration : 2 Hours Max. Marks : 60

PART - A (10 × 2 = 20 Marks)
ANSWER ALL THE QUESTIONS

1.	List the key elements of presentation layer design document.	[CO3]	[K1]
2.	Identify the activities involved in translation of design to code for a Loan Management System.	[CO4]	[K3]
3.	Recall the three types of server required in development environment of an enterprise application.	[CO4]	[K1]
4.	Distinguish between JSF and struts framework used in presentation layer.	[CO4]	[K2]
5.	Identify the best practice that is required to construct a robust and scalable data access layer.	[CO4]	[K1]
6.	Name the key-metrics used to measure code quality.	[CO4]	[K1]
7.	Mention the categories of testing.	[CO5]	[K1]
8.	Draw a neat sketch of testing levels.	[CO5]	[K1]
9.	Write the objectives of user-acceptance testing.	[CO5]	[K1]
10.	Compare brand new roll out with up-down-up rollout.	[CO5]	[K2]

Part – B (4 × 10 = 40 Marks)
ANSWER ANY FOUR QUESTIONS

11.	Paraphrase the key elements of system architecture documentation, business and data access layer design documentation.	10	[CO3]	[K2]
12.	Illustrate the necessary activities for construction readiness of an enterprise application.	10	[CO4]	[K2]
13.	Consider a Railway ticket reservation system and sketch a software construction map for concurrent session management and explain the elements used in the process.	10	[CO4]	[K3]
14.	Illustrate how code profiling and code coverage analysis used in improving the performance of a hospital management system.	10	[CO4]	[K3]

15.		Consider an online payment enterprise application at production environment. Apply Performance testing, penetration testing, usability testing and globalization testing to ensure the performance of the application.	10	[CO5]	[K3]
16.		Summarize the prerequisite and stratergies to be considered for rolling out enterprise application.	10	[CO5]	[K2]

Bloom's Taxonomy Level	Remembering (K1)	Understanding (K2)	Applying (K3)	Analysing (K4)	Evaluating (K5)	Creating (K6)
Percentage	17.5	42.5	40			