KONGU ENGINEERING COLLEGE, PERUNDURAI 638 060

CONTINUOUS ASSESSMENT TEST 1/2/3

(Regulations 2020)

Month and Year : September 2023	
Programme : B.E Branch : CSE Semester : VI	Roll Number: 21C1R 189 Date : 02.09.2023 Time : 2.30 pm to 4.00 pm
Course Code : 20CSE03	Duration : 1 ½ Hours
Course Name : Building Enterprise Applications	Max. Marks : 50

		PART - A $(10 \times 2 = 20 \text{ Marks})$ ANSWER ALL THE QUESTIONS				
1.	Lis	t any four challenges faced by Enterprise applications		[CO1]	[K1]	
2.	1	fferentiate waterfall model and iterative model		[CO1]	[K2]	
3.	Me	ntion the stages in life cycle of Enterprise Application		[CO1]	[K1]	
4.	What are the different types of business modelling for enterprise applications performed by a business analyst?					
5.	Ide	entify the actors and use cases for Hospital Management System		[CO1]	[K2]	
6.	With your own example, sketch the include relationship among use cases in the use case diagram					
7.	7. Define view and view points					
8.	8. Define the four domains of enterprise architecture					
9.	9. Recall the different types of classes that are identified from the documented uses cases					
10.	Dra	aw the association relationship among the customer and LoanProduct classes		[CO2]	[K2]	
		Part – B (4 × 10 = 40 Marks) ANSWER ANY FOUR QUESTIONS				
11.	i)	mastering the skills necessary for enterprise applications.	(6)	[CO1]	[K2]	
	ii)	management system. After the development of the application narrate how you are going to measure the success of it	(4)	[CO1]	[K3]	
12.		outpatient information within its premises by creating an AS-IS and TO-BE architecture diagram	(10)	[CO1]	[K3]	
13.		Draw a use case diagram for the provided system. Identify the actors, use cases, and associations between the actors and use cases. In the process of	(10)	[CO1]	[K3]	

	conducting an exam, an instructor initially informs the students about the exam date and the covered material. Subsequently, the instructor creates the exam paper, including sample solutions. The hall invigilator conducts the examination for the class and distributes answer booklets and question papers at the specified time and location. Students answer the questions and submit their papers to the hall invigilator. After collecting the papers, the hall invigilator hands over the exam papers to the instructor for grading. The instructor then records all the marks and returns the graded papers to the students.		[CO2]	[K2]	
14.	Draw the different layers of logical architecture and explain in detail	(10)	[00-]		

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

KONGU ENGINEERING COLLEGE, PERUNDURAI 638 060 CONTINUOUS ASSESSMENT TEST 2

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(Regulations 2020)

Month and Year : October & 2023	ons 2020)
Programme : B.E	Roll Number: 2144 Face
Branch : CSE	2/05/2/89
Semester : V	Date : 9.10.2023
Course Code : 20CSE03	Time : 9.15 a.m. to 10.45 a.m.
Course Name: Building Enterprise Applications	Duration : 1 ½ Hours
T 100 Typhications	Max. Marks : 50

	PART - A $(10 \times 2 = 20 \text{ Marks})$ ANSWER ALL THE OLUMGE		
	ANSWER ALL THE QUESTIONS Architecture is said as "Pl		
1.	Architecture is said as "Blueprint for guiding the design of an application"? Justify your		
	as "Blueprint for a lit		
	answer guiding the design of an application of a possible of a		·
	Justify your	[CO2]	[K1
2.	Draw an F. D. di		
	an E-10 diagram to show the Recursive and it		
	Draw an E-R diagram to show the Recursive relationship with your own example.	[CO2]	П
3.	Difference 1	[002]	[K3
	Sincrence between Synchronous and Asynchus		
1	Difference between Synchronous and Asynchronous communication.	[CO2]	[K2
4.	In the context of designing the many th	[002]	[112
	In the context of designing the presentation layer for the e-commerce website, why is it	[000]	III
	incorporate responsive design principles and have a state of the state	[CO2]	[K3
	essential to incorporate responsive design principles, and how can they benefit users accessing the site from different devices and screen sizes?		
	and belock sizes!		
5.	List any four key claments of a		
	List any four key elements of System Architecture Documentation.	[000]	CT 7-
6.	How does the interest of the second s	[CO3]	[K1
0.	How does the inclusion of middleware benefit enterprise application architecture? Analyze	F. C. C	
	one key advantage it offers.	[CO3]	[K3
7.	Define Storage Area Network.		1
	2 time storage ratea rectwork.	[CO3]	[K1
0	E IGAY DOM GLAY	[000]	[TZT
8.	Expand SAX, DOM, StAX and mention their roles in software development		
	Expand SAX, DOM, StAX and mention their roles in software development.	[CO3]	
8. 9.		[CO3]	[K1
	Mention the different approaches to design session management.		[K1
9.	Mention the different approaches to design session management.	[CO3]	[K1
9.		[CO3]	[K1
9.	Mention the different approaches to design session management.	[CO3]	[K1
	Mention the different approaches to design session management. Define Service Oriented Architecture. How is enterprise service bus associated with it?	[CO3]	[K1
9.	Mention the different approaches to design session management. Define Service Oriented Architecture. How is enterprise service bus associated with it? Part $-B$ (3 × 10 = 30 Marks)	[CO3]	[K1
9.	Mention the different approaches to design session management. Define Service Oriented Architecture. How is enterprise service bus associated with it?	[CO3]	[K1
9.	Mention the different approaches to design session management. Define Service Oriented Architecture. How is enterprise service bus associated with it? Part - B (3 × 10 = 30 Marks) ANSWER ANY THREE QUESTIONS	[CO3] [CO3]	[K1
9.	Mention the different approaches to design session management. Define Service Oriented Architecture. How is enterprise service bus associated with it? Part - B (3 × 10 = 30 Marks) ANSWER ANY THREE QUESTIONS XYZ Financial Services is planning to build a Loan Management State (40)	[CO3] [CO3]	[K1
9.	Mention the different approaches to design session management. Define Service Oriented Architecture. How is enterprise service bus associated with it? Part - B (3 × 10 = 30 Marks) ANSWER ANY THREE QUESTIONS XYZ Financial Services is planning to build a Loan Management System (10) application for Metro Bank. To develop the full application, the company 1	[CO3] [CO3]	[K1
9.	Mention the different approaches to design session management. Define Service Oriented Architecture. How is enterprise service bus associated with it? Part - B (3 × 10 = 30 Marks) ANSWER ANY THREE QUESTIONS XYZ Financial Services is planning to build a Loan Management System (10) application for Metro Bank. To develop the full application, the company 1	[CO3] [CO3]	[K1
9.	Mention the different approaches to design session management. Define Service Oriented Architecture. How is enterprise service bus associated with it? Part - B (3 × 10 = 30 Marks) ANSWER ANY THREE QUESTIONS XYZ Financial Services is planning to build a Loan Management System application for Metro Bank. To develop the full application, the company has appointed three team leaders, with each team consisting of 10 associate software.	[CO3] [CO3]	[K1
9.	Mention the different approaches to design session management. Define Service Oriented Architecture. How is enterprise service bus associated with it? Part -B (3 × 10 = 30 Marks) ANSWER ANY THREE QUESTIONS XYZ Financial Services is planning to build a Loan Management System application for Metro Bank. To develop the full application, the company has appointed three team leaders, with each team consisting of 10 associate software engineers. Each team is responsible for designing the presentation business.	[CO3] [CO3]	[K1
9.	Mention the different approaches to design session management. Define Service Oriented Architecture. How is enterprise service bus associated with it? Part - B (3 × 10 = 30 Marks) ANSWER ANY THREE QUESTIONS XYZ Financial Services is planning to build a Loan Management System application for Metro Bank. To develop the full application, the company has appointed three team leaders, with each team consisting of 10 associate software engineers. Each team is responsible for designing the presentation, business, and data access layers. However, since this application needs to communicate	[CO3] [CO3]	[K1
9.	Mention the different approaches to design session management. Define Service Oriented Architecture. How is enterprise service bus associated with it? Part - B (3 × 10 = 30 Marks) ANSWER ANY THREE QUESTIONS XYZ Financial Services is planning to build a Loan Management System application for Metro Bank. To develop the full application, the company has appointed three team leaders, with each team consisting of 10 associate software engineers. Each team is responsible for designing the presentation, business, and data access layers. However, since this application needs to communicate with an external bank, it is essential to draw the LoMS integration architecture.	[CO3] [CO3]	[K1
9.	Mention the different approaches to design session management. Define Service Oriented Architecture. How is enterprise service bus associated with it? Part -B (3 × 10 = 30 Marks) ANSWER ANY THREE QUESTIONS XYZ Financial Services is planning to build a Loan Management System application for Metro Bank. To develop the full application, the company has appointed three team leaders, with each team consisting of 10 associate software engineers. Each team is responsible for designing the presentation business.	[CO3] [CO3]	[K1

			and the same of th	
	ensure the consistency of transactions and data across distributed systems in the LoMS and MetroBank's environment?			S.E.
THE COLUMN TWO IS NOT	ensure the consistency of transactions to LoMS and MetroBank's environment? You are a lead software architect working with a healthcare organization, HealthTech Solutions operates a comprehensive healthcare the lead to the solutions operates and medical facilities.	(10)	[CO2]	[K2]
12.	You are a lead software architect working with a healthcare HealthTech Solutions. HealthTech Solutions operates a comprehensive healthcare management system that serves multiple hospitals, clinics, and medical facilities. The existing data access layer of the system is facing performance issues, leading to delays in patient care and administrative processes. Analyze the current to delays in patient care and administrative processes. Analyze the challenges within the data access layer of HealthTech Solutions' healthcare challenges within the data access layer of HealthTech Solutions' healthcare scalability, and data security while ensuring compliance with healthcare regulations.			
13.	Elaborate the fundamental roles and significance of middleware in the context of infrastructure architecture and design for enterprise applications. Provide specific examples of how middleware facilitates the integration of various components and systems within the infrastructure.		[CO3]	[K3
14.	In the context of establishing a new branch office at Noida, what are the key considerations when selecting IT hardware and software components to ensure efficient and secure operations? How would you balance the need for performance, scalability, and cost-effectiveness in your hardware and software	(10)	[CO3]	[K2]

Bloom's	100120	Understanding	Applying	Analysing	Evaluating	Creating
Taxonomy Level		(K2)	(K3)	(K4)	(K5)	(K6)
Percentage	20%	40%	40%			

KONGU ENGINEERING COLLEGE, PERUNDURAI 638 060

CONTINUOUS ASSESSMENT TEST 3

(Regulations 2020)

Roll Number: 21CSR184

Year: November & 2023	IWIN A CONTROL OF THE PARTY OF		_	
	Date : 17.11.2023			
ne : B.E	Time : 2.30 pm to 4.00 pm			
CSE				-
r v	Duration : 1 % Hours			
Code : 20CSE03	Max. Marks : 50			_
Name : Building Enterprise Applications				
ANSWER ALL T	× 2 = 20 Marks) THE QUESTIONS			
XYZ company, there is a blueprint architecture	of the Bank application. Now, they	want	[CO4]	[K3]
XYZ company, there is a blueprint architecture convert the design into code. List the activities	involved in the code phase.			
			[CO4]	[K1]
Define cyclomatic complexity		-	[CO4]	[K2]
Compare and contrast EJB 3.0 and spring framey	vork.		[CO4]	freel
Mention any four important attributes of code pro-	ofiling		[CO4]	[K1]
List out the key objectives of static code analysis			[CO4]	[K1]
Differentiate load testing and volume testing in a	n enterprise application.		[CO5]	[K2]
Justify why Endurance testing is important in an	application development		[CO5]	[K3]
Name any four objective of globalization testing			[CO5]	[K1]
Draw the hierarchy of enterprise application elevels.	environments and their respective te	sting	[CO5]	[K1]
How white box testing is different from black bo	x testing		[CO5]	[K1]
	10 = 30 Marks) HREE QUESTIONS	A		
Elaborate the role and significance of logg session management in the construction of a layer.	ing, eaching, exception handling and an ERP system's infrastructure service	(10)	[CO4]	[K2]
You are a senior software engineer at a la Your team is responsible for maintaining a by thousands of customers. Lately, there ha crashes, performance bottlenecks, and une The company's regulation is at stake and	complex enterprise application used we been increasing reports of software	(10)	[CO4]	[K3]

The company's reputation is at stake, and customers are becoming increasingly

14.	(ii)	In preparation for the rollout of an enterprise application, outline different rollout strategies and explain it Describe various steps involved in rolling out the enterprise application	(5)	[CO5]
13.		HealthTech Solutions is developing a comprehensive Healthcare Information System (HIS) for a network of hospitals. The HIS aims to streamline patient care, manage medical records efficiently, and improve overall healthcare delivery. As the lead System Tester, your role is critical in ensuring the reliability, security, and performance of the HIS. Identify various system testing techniques that can be carried out and write some test cases for this given scenario	(10)	[CO5]
		frustrated. You have been tasked with addressing these issues and improving the software quality. One approach your team wants to explore is the use of dynamic code analysis tools. Describe the steps you would take to implement dynamic code analysis in this scenario. What are the key considerations when selecting a dynamic analysis tool? How can dynamic analysis help identify and mitigate the reported issues in the application?		

Bloom's	Remembering	Understanding	Applying	Analosissa	100	
Taxonomy Level	(K1)	(K2)	(K3)	Analysing (K4)	Evaluating (K5)	Creating
Percentage	20%	40%	40%	10.000	(17.0)	(K6)
					*	- 10