Hall Ticket Number :										

R-20

Code: 20DF33T

M.C.A. III Semester Regular Examinations April 2022

Dev. Ops

Max. Marks: 60 Time: 3 Hours

Answer *all five* units by choosing one question from each unit (5 x 12 = 60 Marks)

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			Marks	CO	Blooms Level
		UNIT–I			
1.	a)	What is Cloud Computing? Explain its advantages	6M	CO1	L1
	b)	Explain in detail about Software as Service? Describe its advantages	6M	CO1	L2
		OR			
2.	a)	Explain Public Cloud in detail along with its advantages.	6M	CO1	L2
	b)	Explain in detail about the disadvantages of Private Cloud Model	6M	CO1	L2
		UNIT–II			
3.	a)	Describe in detail about Creation of S3 bucket using AWS console	6M	CO2	L2
	b)	Discuss about different types of creation of EC2 Computing Instances	6M	CO2	L2
		OR			
4.	a)	Explain in detail about the steps involved in the Creation of RDS	6M	CO2	L2
	b)	Elaborate on the Advantages of Amazon Cloud watch	6M	CO2	L2
		UNIT–III			
5.	a)	Discuss in detail about Git Version Control System	6M	CO3	L2
	b)	Explain in detail about Git branching.	6M	CO3	L2
		OR			
6.	a)	How To Create a Remote Repository Using Git	6M	CO3	L3
	b)	Explain in detail about the features of Git	6M	CO3	L2
		UNIT–IV			
7.	a)	Explain in detail about the Advantages and Disadvantages of using Jenkins.	6M	CO4	L2
	b)	Explain in detail about Jenkins - Continuous Deployment	6M	CO4	L2
		OR			
8.	a)	How to install Jenkins on Linux	6M	CO4	L2
	b)	How to manage plug-ins in Jenkins	6M	CO4	L3
		UNIT–V			
9.	a)	Explain in detail about DOCKERFILE	6M	CO5	L2
	b)	List out atleast 20 Docker CLI.	6M	CO5	L1
		OR			
10.	a)	How to create a Docker? Discuss in detail	6M	CO5	L3
	b)	Explain in detail about the Benefits of docker compose	6M	CO5	L2

****END****

Hall Ticket Number :										

R-20

Code: 20DF3JT

M.C.A. III Semester Regular Examinations April 2022

Mobile Application Development

Max. Marks: 60 Time: 3 Hours

Answer *all five* units by choosing one question from each unit (5 x 12 = 60 Marks)

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			Marks	CO	Blooms Level
		UNIT–I			
1.	a)	Describe the features available in android SDK in detail	6M	CO1	L2
	b)	Draw the architecture of android stack and explain the layers briefly.	6M	CO1	L2
		OR			
2.	a)	What are the types of android applications? Discuss them category wise	6M	CO1	L2
	b)	Describe the tools that are available to develop an android application in detail	6M	CO1	L2
		UNIT–II			
3.	a)	Explain various layouts that are used to develop a UI design in android application development	6M	CO2	L2
	b)	What do you mean by Activity? Explain the activity life cycle process with a neat diagram	6M	CO2	L2
		OR			
4.	a)	List out the building blocks for an android application. What is the role of Fragment in android application development?	6M	CO2	L3
	b)	Define Intent. Mention the types of intents and explain in detail	6M	CO2	L2
		UNIT–III			
5.	a)	Write short notes on SQLite and its usage in android application development	6M	CO3	L2
	b)	Illustrate the working methodology of content providers in android application development	6M	CO3	L3
		OR			
6.	a)	Demonstrate the usage SQLite database by developing a simple program in android	6M	CO3	L3
	b)	Demonstrate the CRUD operations in SQLite with example	6M	CO3	L3
		UNIT–IV			
7.	a)	What is animation? Explain its types in detail	6M	CO4	L2
	b)	How android supports the working of speech recognition? Explain	6M	CO4	L2
		OR			
8.	a)	What are the drawables available in creating Graphics in android? Discuss briefly	6M	CO4	L2
	b)	Illustrate the creation of Tweened animation in android in detail	6M	CO4	L3
		UNIT–V			
9.	a)	Explain the creation of Map Based Activities in android.	6M	CO5	L2
	b)	What do you mean by Sensors? Explain different types of sensors in android	6M	CO5	L2
		OR			
10.	a)	Illustrate the procedure for inserting the Media to the Media Store with example (Mention the methods and Classes used for this purpose)	6M	CO5	L3
	b)	Explain in detail: Configuring the video recorder in android application development	6M	CO5	L3

END

Hall Ticket Number :										

R-20

Code: 20DF31T

M.C.A. III Semester Regular Examinations April 2022

Web Technologies

Max. Marks: 60 Time: 3 Hours

Answer *all five* units by choosing one question from each unit (5 x 12 = 60 Marks)

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			Marks	CO	Blooms Level
		UNIT–I			
1.	a)	Discuss about the super keyword in java with example?	6M	CO1	L6
	b)	Compare Method Overriding and Method Overloading?	6M	CO1	L5
		OR			
2.	a)	Explain in detail about Garbage Collector in Java?	6M	CO1	L3
	b)	What is a Constructor? Write a java program to find the Area of Circle using Constructor?	6M	CO1	L2
		UNIT–II			
3.	a)	Write a java program to find the factorial value of the given number using user defined package concept?	6M	CO2	L3
	b)	What is Multithreading? What are the ways to create multiple threads in java?	6M	CO2	L1
		OR			
4.	a)	What is an abstract class? Explain any two cases to implement abstract class?	6M	CO2	L2
	b)	Explain about Thread Life Cycle?	6M	CO2	L3
		UNIT–III			
5.	a)	Design A JavaScript to display whether given number is prime or not?	6M	CO3	L6
	b)	How can both Internal and External DTDs be used in an XML File? Show with an Example?	6M	CO3	L1
		OR			
6.	a)	Explain at least 8 event handlers in detail?	5M	CO3	L3
	b)	Design a html registration page in which the name, password, confirm password, gender are to be validated?	7M	CO3	L6
		UNIT–IV			
7.	a)	Distinguish between Get request and Post request type in Servlets?	6M	CO4	L2
	b)	Discuss about Session tracking in Servlets with a suitable example?	6M	CO4	L2
		OR			
8.	a)	Justify the differences between servlets and jsp's?	6M	CO4	L5
	b)	Explain about the jsp processing?	6M	CO4	L2
		UNIT–V			
9.	a)	Explain the components of jsp?	6M	CO5	L2
	b)	Explain the method of declaring variables and methods in JSP?	6M	CO5	L2
		OR			
10.	a)	Define Database? Discuss the four types of JDBC Drivers?	6M	CO5	L1
	b)	How does JDBC allows to access database through java?	6M	CO5	L1

****END****

Hall Ticket Number :										

R-20

Code: 20DF32T

M.C.A. III Semester Regular Examinations April 2022

Object Oriented Modeling and Design with UML

Max. Marks: 60 Time: 3 Hours

Answer *all five* units by choosing one question from each unit (5 x 12 = 60 Marks)

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			Marks	CO	Blooms Level
		UNIT–I			
1.		Describe in detail on Object Oriented Modeling with suitable examples	12M	CO1	L3
		OR			
2.		Draw the UML Architecture and explain its components in detail	12M	CO1	L3
		UNIT–II			
3.		Draw a class diagram for a Library Management systems and explain the various classes used in the diagram?	12M	CO2	L3
		OR			
4.	a)	What are the relationships that are present in UML and explain them?	6M	CO2	L2
	b)	Explain the common modeling techniques related to class?	6M	CO2	L2
		UNIT–III			
5.	a)	List and explain about the terms and concepts related to use case?	6M	CO3	L2
	b)	Explain about the modeling techniques related to use case diagram?	6M	CO3	L2
		OR			
6.		Define Activity diagram? Draw a activity diagram for a loan processing system and explain?	12M	CO3	L1,L4
		UNIT–IV			
7.		Write a short notes on i)Events and signals ii) processes and threads	12M	CO4	L3
		OR			
8.		What is a state machine? Explain about the state chart diagram with example	12M	CO4	L3
		UNIT–V			
9.		Explain Component diagram with suitable examples?	12M	CO5	L2
		OR			
10.		Explain Deployment diagram with suitable examples?	12M	CO5	L2

****END****

Hall Ticket Number :										

R-20

Code: 20DF34T

M.C.A. III Semester Regular Examinations April 2022

Big Data Analytics

Max. Marks: 60 Time: 3 Hours

Answer *all five* units by choosing one question from each unit (5 x 12 = 60 Marks)

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			Marks	CO	Blooms Level
		UNIT–I			
1.	a)	Define Big Data. Explain the four V's of Big Data	6M	CO1	L1,L2
	b)	Explain the importance of Big Data.	6M	CO1	L2
		OR			
2.	a)	List and explain any three applications of Big Data.	6M	CO1	L1,L2
	b)	Explain the various Big data sources.	6M	CO1	L2
		UNIT–II			
3.	a)	Define Hadoop. Explain the two critical components of Hadoop with a neat diagram.	6M	CO2	L1,L2
	b)	Explain the old approach with new approach of Big data.	6M	CO2	L2
		OR			
4.	a)	List and explain some of the leading trends that are making their way to the forefront of business today.	6M	CO2	L1,L2
	b)	Explain the concept of Inter- and Trans-Firewall Analytics with a neat diagram.	6M	CO2	L2
		UNIT–III			
5.	a)	Explain briefly the Role of the Data Scientist.	6M	CO3	L2
	b)	List and explain the major skill sets of Data scientists.	6M	CO3	L1,L2
		OR			
6.	a)	Explain the different categories of Analytics needed with a neat diagram.	6M	CO3	L2
	b)	Explain how to set up the Right Organizational Structure for Institutionalizing Analytics.	6M	CO3	L2
		UNIT–IV			
7.	a)	Discuss the stages involved in Analytics Maturity Model.	6M	CO4	L2
	b)	What is Data Orchestration? Explain Orchestration with a neat diagram.	6M	CO4	L1,L2
		OR			
8.	a)	Explain the concept of Big Data Governance	6M	CO4	L2
	b)	Explain Real time Architecture for Conversation with a neat Diagram.	6M	CO4	L2
		UNIT–V			
9.	a)	Define Map Reduce. Discuss the components of Map Reduce with a neat diagram.	6M	CO5	L1,L2
	b)	Explain the Building blocks of Map Reduce.	6M	CO5	L2
		OR			
10.	a)	List and explain the advantages of Hadoop Map Reduce.	6M	CO5	L1,L2
	b)	Describe the design of HDFS with a neat diagram	6M	CO5	L2

****END****