Hall	Tick	et Number :								
Code.	Code: 7P2B51									
ooue.	/1 4	M.C.A. V Semester Regular Examinations November 2019								
Max		Mobile Application Development								
		rks: 60 er all five units by choosing one question from each unit (5 x 12 = 60 Marks)	ITS							
		******** UNIT–I								
1.	a)	List and explain steps for starting and using the Android Studio.	6M							
	b)	With neat diagram, show the major components of Android Stack.	6M							
		OR								
2.	a)	What are the challenges faced in Android app development.	6M							
	b)	Explain the Android development tools.	6M							
		UNIT–II								
3.	a)	Describe the anatomy of an Android application.	6M							
	b)	Explain the Android application life cycle.	6M							
		OR								
4.		Explain in detail the various types of Android fragments.	12M							
F	c)	UNIT-III What is SQL its? Explain it using a program for deleting the date	6M							
5.	a) b)	What is SQLite? Explain it using a program for deleting the data. How to create the content provider's database.	6M							
	D)	OR	OIVI							
6	a)	Explain the insertion and deletion of data from database created by using SQLite.	6M							
0.	b)	Why to use native android content providers in SQLite.	6M							
	0)		om							
7.	a)	How to create scalable graphics assets?	6M							
	b)	How to creating the animations? Explain it.	6M							
		OR								
8.	a)	Differentiate between finding sensors and monitoring sensors.	6M							
	b)	Determining orientation using the deprecated orientation sensor.	6M							
		UNIT-V								
9.	a)	How to using the emulator with location-based services? Explain.	6M							
	b)	How to create map-based activities? Explain it.	6M							
		OR								
10.	a)	How to prepare video for play back? Explain it.	6M							
	b)	Explain in detail the configuring the video recorder.	6M							

Hall	Tick	et Number :											
Cod	Code: 7P2B52												
M.C.A. V Semester Regular Examinations November 2019													
		.Net Technologies											
Max	x. Mo	arks: 60 Time: 3 Hou	Jrs										
Ans	wer	all five units by choosing one question from each unit (5 x 12 = 60 Marks	5)										
1.	Describe the components of the .NET Framework and also explain the												
		features of each component.	6M										
	b)	Briefly explain about Assemblies and Manifests.	6M										
	、	OR											
2.	a)	Differentiate between managed and unmanaged code.	6M										
	b)	Explain the working of JIT and IL UNIT-II	6M										
3.	a)	Mention the syntax and purpose of all class-modifiers in C# in detail.	6M										
0.	b)	List the important collection interfaces. State the purpose of each.	6M										
	,	OR											
4.	a)	How will you handle nested Try-Catch-Finally Block to handle exceptions?	6M										
	b)	Define delegate. Explain various types of delegates.											
5.	a)	UNIT–III Describe the disconnected architecture of ADO. NET's data access model.	6M										
0.	b)	What are the data providers in ADO.NET framework? Explain.	6M										
	,	OR											
6.	a)	Explain Connection and Command object in ADO.NET with an example. 6											
	b)	Describe the role of the Dataset, Data Reader objects in ADO.NET. 6											
_	UNIT-IV												
7.	a)	Mention the advantages and drawbacks of using Cookies? Explain how server sets a cookie and retrieves it.	6M										
	b)	What is authentication and authorization in ASP.NET? Explain	6M										
	0)	OR	0101										
8.	a)	Explain all the steps to create a Login form with validation controls	6M										
	b)	Differentiate between client-side and server-side controls in Web pages.	6M										
_		UNIT–V											
9.	a)	Write short notes on											
		(i) WSDL (ii) UDDI	CM										
	b)	Explain the steps involved in creation of a simple web service.	6M 6M										
	5)	OR											
10.	a)	What is the purpose of AJAX? Elaborate with an example	6M										
	b)	Define Web method. Also create a simple web service application with a user											
		defined web method.	6M										

Hall T	icke	t Number :										
Code:	7P2	R53 R-17										
Max. N	Mark	M.C.A. V Semester Regular Examinations November 2019 Object Oriented Modeling and Design with UML rs: 60 Time: 3 Hou	-									
Answe	er al	five units by choosing one question from each unit (5 x 12 = 60 Marks ********** UNIT-I)									
1.		Discuss the building blocks of UML with an example	12M									
2.	a) b)	Explain the importance of UML What are behavioral things? Explain.										
3.	a) b)	UNIT-II Draw the object diagram for ATM transaction Illustrate the concept of aggregation and composition with examples in UML.	6M									
4.		How do we identify aggregation? OR Library Information needs to be developed to provide the following services: Opening aa Account Borrowing a book from the library Returning a book to the library Calculate fine for defaulters	6M									
5.		Draw a class diagram for the above situation UNIT–III Develop an activity diagram based on the following narrative. If you need to make assumptions you can do, also note them. The purchasing	12M									
		department handles purchase requests from other departments in the company. People in the company who initiate the original purchase request are the "customers" of the purchasing department. A case worker within the purchasing department receives that request and monitors it until it is ordered and received. Case workers process request for the purchase of products under \$1,500, write a purchase order, and then send it to the approved vendor. Purchase requests over \$1,500 must first be sent out for bid from the vendor that supplies the product. When the bids return, the case worker selects one										
		bid. Then, he or she writes a purchase order and sends it to the vendor OR	12M									
6.	a)	Explain in detail about interaction diagrams	6M									
	b)	Explain about use cases and actors and use cases and flow of events.	6M									
7.		Explain about common modeling techniques OR	12M									
8.	a) b)	,										
9		Differentiate the following: i) Components and classes ii) Nodes and components. OR	6M 6M									
10.		Explain about the deployment diagram and how it is useful in the modeling of an embedded system	12M									

Hall Ticket Number :]							
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M.C.A. V Semester Regular Examinations November 2019															
Business Analytics															
Max. Marks: 60 Answer all five units by choosing one question from each unit (5 x 12 = 60 Marks)															
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1.		Explain Dat	o D	rona	ratio			UNI of			alvtic	e li	focuel	a Why E	ıт
1.		approach is		-							•		•	-	
		Data Prepar	ation	Pha	se?										12M
								OF							
2.		List out the explain how			•					ersta	andin	g da	ta ex	ploration a	nd 12M
		ехріантном			anu	Territ		UNI							12101
3.	a)	Derive Mear	n and	Var	iance	e of t	he Bi			strib	ution				6M
	b)	Write about	Null I	Нурс	othes	is an	d Te	sting	of N	ull H	ypot	hesis	5		6M
								OF	ł						
4.	a)	Find the mea	an ar	nd va	riano	ce of	norn	nal D	istrib	utior	1				6M
	b)	In a shop the				•			•	-		-			-
		time per job times to be				-				-				-	
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		i) The expec	ted r	numb	er of	[;] jobs	s wait	ting f	or co	mpu	ter				
		ii) The total t	ime l	ost p	ber d	ay									6M
_							Ŀ	UNI							
5.		Explain any the right reg		•••		•	essic	on teo	chniq	ues.	Also	exp	lain ho	ow to selec	t 12M
		the light reg	0001	01111	10401	•		OF	ł						12.01
6.		Classify the	types	s of [Discr	ete C	Choic	e mo	dels	alon	g wit	h fev	v appl	ications of	it. 12M
								UNI	-IV						
7.	a)	What is Surv	vival .	Anal	ysis?	•									
		Define the te	erms:	i) E	vent	ii) Tii	me iii	i) Ce	nsori	ng					6M
	b)	Define Time	Seri	es ai	nd lis	t out	vario			nique	es & /	Appli	cation	s of it.	6M
8.		Explain any	two r	node	ale w	hich	can l			n ran	rasa	ot Tir	no Sc	ries Data	12M
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9.	a)	Explain clust	tering	g bas	sed o	utlie	r ana								6M
	b)	Tabulate the	e Adv	anta	ges a	& Dis	adva	antag	es o	f the	follo	wing	Class	ification	
	÷	Techniques:			•							•			6M
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10.		Write Apriori	aigo	ritnn	ı tor	rindii	-	eque	nt Ite	m se	rs ar	ia ex	piain.		12M

		et Number : R-17									
Code:	7P2	B54 M.C.A. V Semester Regular Examinations November 2019									
		Big Data									
		rks: 60 Time: 3 Hours er all five units by choosing one question from each unit (5 x 12 = 60 Marks) ********									
		UNIT–I									
1.	a)	What is big data? Explain the pinnacle stages in the evolution of data systems.									
	b)	Outline the competitive strategies in the analytic applications.									
		OR									
2.	a)	Explain structured, semi structured and unstructured data in terms of big data analytics.									
	b)	Explain different characteristics of Big Data?									
		UNIT–II									
3.	a)	What are the critical components of Hadoop? How are they designed to continue to work in the face of system failures?									
	b)	What are the reasons that stand out for the success of Omniture of handling big data?									
		OR									
4.		Construct the Inter and Trans Firewall Analytics with neat diagram									
		UNIT–III									
5.	a)	What characteristics are needed to be a good data scientist?									
	b)	Discuss the key principles that are adopted in using deep math, science and computer science in Big Data.									
		OR									
6.	a)	Organizations are limited by fear of collaboration and overreliance on proprietal information. Explain it.									
	b)	Explain the different forms of organizational structure that best suited to th analytical needs of the organization.									
		UNIT–IV									
7.		Write in detail about Big Data Governance.									
		OR									
8.		Discuss the real time architecture for conversations.									
_		UNIT-V									
9.		Explain the basic building blocks of Hadoop Map Reduce.									
		OR									
10.		Explain the Hadoop Distributed File System									

Hall T	icke	et Number :	
Code:	7 P2]	B5F R-17	
		M.C.A. V Semester Regular Examinations November 2019	
		Internet of Things	
Max. I Ar	-	ks: 60 Time: 3 Hou r all five units by choosing one question from each unit (5 x 12 = 60 Marks) ********	rs
		UNIT–I	
1.	a)	Define Internet of Things. Elaborate on the different applications of IoT.	6M
	b)	Explain in detail on the block diagram of IoT	6M
		OR	
2.	a)	List out the different issues relevant to IoT	6M
	b)	Discuss in detail on different applications and Domains relevant to IoT	6M
3.	a)	Discuss in detail on the Things in IoT	6M
	b)	Elaborate on different IoT enabling technologies	6M
4.	a)	OR Discuss in detail on the link layer protocols of IoT	6M
ч.	b)	Describe how IoT is enabled by Wireless Sensor Networks	6M
	D)		ON
5.	a)	Discuss with two examples as to how IoT can be used in Home Automation	6M
	b)	Elaborate on the applications of IoT in agriculture	6M
	0)	OR	on
6.	a)	How can IoT be used in Cities through Smart parking and structural health monitoring	6M
	b)	Explain in detail how environment be controlled using IoT	6M
		UNIT-IV	
7.		List out the functional groups involved in Functional View Specification and discuss	12M
_		OR	
8.	a)	Explain in detail about Service specifications step and IoT level specification followed in design methodology of IoT devices	6M
	b)	Describe domain model specification in detail with respect to weather	0101
	D)	monitoring using IoT	6M
		UNIT-V	
9.	a)	Write short notes on microcontrollers and how they can be used in IoT	6M
	b)	Discuss in brief on Raspberry pi in detail	6M
		OR	
10.	a)	Elaborate on MapReduce Programming model in IoT	6M
	b)	Explain with example how SIP can be used in IoT	6M
