Printe	ed Paş	ge:- 04 Subject Code:- ACSIOT0401						
		Roll. No:						
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NO	IDA .	INSTITUTE OF ENGINEERING AND TECHNOLOGY, GREATER NOIDA (An Autonomous Institute Affiliated to AKTU, Lucknow)						
B.Tech								
		SEM: IV - THEORY EXAMINATION (2023 - 2024)						
	Subject: Mobile Application Development							
		Hours Max. Marks: 100						
		structions:						
		y that you have received the question paper with the correct course, code, branch etc.						
		stion paper comprises of three Sections -A, B, & C. It consists of Multiple Choice MCQ's) & Subjective type questions.						
		n marks for each question are indicated on right -hand side of each question.						
		your answers with neat sketches wherever necessary.						
4. Ass	ume s	uitable data if necessary.						
-		ly, write the answers in sequential order.						
		should be left blank. Any written material after a blank sheet will not be hecked.						
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SECT	ION-	- <u>A</u> 20						
1. Atte	empt a	all parts:-						
1-a.	T	DMA is a multiple access technique that has (CO1)						
	(a)	Different users in different time slots						
	(b)	Each user is assigned unique frequency slots						
	(c)	Each user is assigned a unique code sequence						
	(d)	Each signal is modulated with frequency modulation technique						
1-b.	` '	he transmitter-receiver combination in the satellite is known as a (CO1)						
	(a)	Relay						
	(b)	Repeater						
	(c)	Transponder						
	(d)	Duplexer						
1-c.		ndroid is based on which of the following language? (CO2)						
1-0.								
	(a)	Java						
	(b)	C						
	(c)	C++						
	(d)	None of the above which of the following, developers can test the application, during developing 1						
1-d. On which of the following, developers can test the application, during dev the android applications? (CO2)								
		Third-party emulators						
	(a)	Emulator included in Android SDK						
	(b)	Emurator included in Android SDK						

	(c)	Physical android phone				
	(d)	All of the above				
1-e.		For using Google map which permission you will specify in the AndroidManifest.xml? (CO3)				
	(a)	USEMAP				
	(b)	USE_GOOGLE_MAP				
	(c)	INTERNET				
	(d)	None of the above.				
1-f.	WPA is a security mechanism in (CO3)		1			
	(a)	WiFi				
	(b)	Cloud				
	(c)	Bluetooth				
	(d)	Ethernet				
1-g.	A	mong these four, which database is natively supported by android? (CO4)	1			
	(a)	Oracle				
	(b)	SQLite				
	(c)	MYSQL				
	(d)	MSSQL				
1-h.	S	SQLite dot commands and exception should not be terminated by? (CO4)				
	(a)	;				
	(b)					
	(c)	,				
	(d)					
1-i.	Multitasking In IOS was introduced in which version (CO5)					
	(a)	IOS 2.0				
	(b)	IOS 4.0				
	(c)	IOS 6.0				
	(d)	(d) IOS 7.0				
1-j.	N	ame the programming language used to develop iOS Applications. (CO5)	1			
	(a)	Swift and Objective C				
	(b)	JAVA				
	(c)	PHP				
	(d)	None				
2. Att	empt a	all parts:-				
2.a.	C	ompare the performance of web application and mobile application. (CO1)	2			
2.b.		ame and briefly explain the mobile automation tools that are available in the arket. (CO2)	2			
2.c.	L	ist down the available types of view in Android. (CO3)	2			

2.d.	State the differences between android and iOS with examples. (CO4)	2
2.e.	Explain the concept of cross-platform support in iOS with example. (CO5)	2
SECTION	ON-B	30
3. Answ	ver any <u>five</u> of the following:-	
3-a.	Decode MOBILE. Name the processors used for mobile and handheld devices. (CO1)	6
3-b.	Design the Architecture of Android based native Mobile App. (CO1)	6
3-c.	Difference between Table Layout and Frame Layout with diagram. (CO2)	6
3-d.	Name different types of processors used in the phone. Illustrate any two processors with example. (CO2)	6
3.e.	How can you use Date picker option in android and write the code of it? (CO3)	6
3.f.	Using XML, create an android presentation logic for simple calculator application. (CO4)	6
3.g.	Comment on testing and publishing the iphone marketplace, Also discuss the salient features of app store. (CO5)	6
SECTION	<u>ON-C</u>	50
4. Answ	ver any one of the following:-	
4-a.	Illustrate the real case scenarios where web application and mobile application are used in education sector. Give a sample code for both the applications in education domain. (CO1)	10
4-b.	Design the architecture of a hybrid Mobile Apps. Illustrate with diagram and example. (CO1)	10
5. Answ	ver any one of the following:-	
5-a.	Discuss the term android ecosystem? Explain its components. (CO2)	10
5-b.	Explain android activity life cycle? Define with example code: Protocols, Activities, Services. (CO2)	10
6. Answ	ver any <u>one</u> of the following:-	
6-a.	Discuss the concept of communication between sensor data and android application. Write a android code stating communication between android device and sensor. (CO3)	10
6-b.	Briefly explain types of animations? Show with demo code interfacing of android animation. (CO3)	10
7. Answ	ver any <u>one</u> of the following:-	
7-a.	Explain with diagram the mobile cloud computing architecture. (CO4)	10
7-b.	Define the terms: Install time, normal, signature, runtime, and special android permissions. (CO4)	10
8. Answ	ver any <u>one</u> of the following:-	
8-a.	Create an iOS application with UI components and write the procedure. (CO5)	10
8-h	Explain how to integrate calendar and address book with social media application	10

in iOS. (CO5)

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