Printed F	Page:-04 Su	ubject Code:- ACSIOT0401					
	Ro	oll. No:					
I	NOIDA INSTITUTE OF ENGINEERING AND TECHNOLOGY, GREATER NOIDA						
	(An Autonomous Institute Affiliated to AKTU, Lucknow)						
	B.Tech	1					
	SEM: IV - THEORY EXAMINATION (2023 - 2024)						
	Subject: Mobile Applicat	<u>-</u>					
	3 Hours	Max. Marks: 100					
	Instructions:						
•	rify that you have received the question paper						
	• • •	ns -A, B, & C. It consists of Multiple Choice					
	ns (MCQ's) & Subjective type questions.	and the formal and the formal and the second					
	num marks for each question are indicated of						
	ate your answers with neat sketches whereve	r necessary.					
	ne suitable data if necessary.						
-	ably, write the answers in sequential order.	material after a blank sheet will not be					
	d/checked.	material after a blank sheet will not be					
cvaraatea	SECTION A	20					
4 0440.00		20					
	npt all parts:-						
1-a.	The process of transferring a mobile sta	ation from one base station to another 1					
	is (CO1)						
	(a) MSC						
	(b) Roamer						
	(c) Hand off						
	(d) Forward channel						
1-b.	Radio capacity may be increased in cellul	ar concept by (CO1) 1					
	(a) Increase in radio spectrum						
	(b) Increasing the number of base	stations & reusing the channels					
	(c) Both a & b						
	(d) None of the above						
1-c.	For which of the following Android is mai	inly developed? (CO2) 1					
	-	, actalopear (co2)					
	(a) Servers						
	(b) Desktops						

	(c) Laptops	
	(d) Mobile devices	
1-d.	An activity in android is: (CO2)	1
	(a) android class	
	(b) android package	
	(c) A single screen in an application with supporting java code	
	(d) None of the above	
1-e.	Choose the life cycle of services in android? (CO3)	1
	(a) onCreate()->onStartCommand()->onDestory()	
	(b) onRecieve()	
	(c) final()	
	(d) Service life cycle is same as activity life cycle.	
1-f.	Which of the following is the parent class of service? (CO3)	1
	(a) context	
	(b) object	
	(c) contextThemeWrapper	
	(d) contextWrapper	
1-g.	Although most people's first thought when they think of Android is Google,	1
	Android is not actually owned by Google. Who owns the Android platform?	
	(CO4)	
	(a) Oracle Technology	
	(b) Dalvik	
	(c) Open Handset Alliance	
	(d) Android is owned by Google	
1-h.	Which among these are NOT a part of Android's native libraries? (CO4)	1
	(a) Webkit	
	(b) Dalvik	
	(c) OpenGL	
	(d) SQLite	
1-i.	iOS remote push notifications are introduced by apple in (CO5)	1
	(a) iOS 2.0	
	(b) iOS 3.0	
	(c) iOS 4.0	

	(d) iOS 6.0	
1-j.	To free an object, syntax is (CO5)	1
	(a) free(obj)	
	(b) None of the above	
	(c) [obj free]	
	(d) [obj release]	
2. Atte	empt all parts:-	
2.a.	List down the quality constraints of mobile applications. (CO1)	2
2.b.	List out and explain the dialog boxes that are supported by the Android platform. (CO2)	2
2.c.	Define and explain Multimedia Supported audio and video format. (CO3)	2
2.d.	Enlist presentation logic languages with examples. (CO4)	2
2.e.	How to convert an NSArray to a string in Objective-C? (CO5)	2
	SECTION B	30
3. Ansı	wer any <u>five</u> of the following:-	
3-a.	Discuss the apple iOS platform for mobile applications. (CO1)	6
3-b.	Design the Architecture of iOS based native Mobile App. (CO1)	6
3-c.	Discuss about fragments and Intents with examples. (CO2)	6
3-d.	Explain briefly about understanding the different activities in android. Cite relevant examples. (CO2)	6
3.e.	Define the Class in google maps? Write the code of it. (CO3)	6
3.f.	State and explain the concept of digitally signing. How it is used in android. (CO4)	6
3.g.	Explain the terms in iOS: Live Text, Visual Search, App privacy report, Mail privacy protection, and On-device Siri. (CO5)	6
	SECTION C	50
4. Ans	wer any <u>one</u> of the following:-	
4-a.	Discuss the SoC Architecture with diagram and give some examples of SoC? (CO1)	10
4-b.	Briefly explain real time operating systems and mobile real time operating systems. Write down the characteristics and types of mobile applications. (CO1)	10

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How the communication is established between a service & activity. Explain

10

5. Answer any <u>one</u> of the following:-

5-a.

	with diagram. (CO2)				
5-b.	Explain Android perspectives and create a simple android application in constraint layout. (CO2)	10			
6. Answ	er 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	7. Answer any <u>one</u> of the following:-				
7-a.	Mention the difference between SQL, SQLite, and Firebase along with the properties and usage in android applications. (CO4)	10			
7-b.	Write down the steps for Creating And Updating Database In Android. (CO4)	10			
8. Answ	3. Answer any <u>one</u> of the following:-				
8-a.	Create an iOS application with UI components and write the procedure. (CO5)	10			
8-b.	Explain with sample code the process to integrate mapkit and Wi-Fi calendar in iOS. (CO5)	10			