Printed Page:-		Subject Code:- ACSIOT0401 Roll. No:	
	NOIDA INSTITUTE OF ENGINEERING A (An Autonomous Institute Aff	iliated to AKTU, Lucknow)	
	SEM: IV - THEORY EXAM		
Time: 3	Subject: Mobile Applio	cation Development Max. Marks: 100	
		1.2 1.2 1.00	
2. Section3. Section4. Section	stion paper comprises three sections, A, B, and A - Question No- 1 is 1 marker & Question No- B - Question No-3 is based on external choice C - Questions No. 4-8 are within unit choice q	carrying 6 marks each.	
	SECTION A	A 20	
1. Attempt	•		
1-a.	A mobile development framework is a (CO1)	1	
	(a) Hardware framework		
	(b) Software framework		
	(c) Both of the above(d) None of these		
1-b.	What is ADB in android? (CO1)	1	
1-0.	(a) Image Tool	1	
	(b) Development Tool		
	(c) Android Debug Bridge		
	(d) None of above		
1-c.	Which of the following is the first mobile pho	one released that ran the Android OS? (CO2)	
	(a) HTC Hero		
	(b) Google gPhone		
	(c) T - Mobile G1		
1 1	(d) None of the above		
1-d.	android applications? (CO2)	n test the application, during developing the 1	
	(a) Third-party emulators	77	
	(b) Emulator included in Android SDI		
	(c) Physical android phone(d) All of the above		
1-e.	Choose the life cycle of services in android? ((CO3) 1	
1 0.	(a) onCreate()—>onStartCommar		
	(b) onRecieve()	id() > onDescory()	
	(c) final()		
	(d) Service life cycle is same as activi	ty life cycle.	
1-f.	.Which element is used to display Google ma	p in your UI? (CO3)	
	(a) View		
	(b) Map		
	(c) MapView		
	(d) None of the above.		

1-g.	Android tries hard to low-level components, such as the software stack, with interfaces so that vendor-specific code can be managed easily. (CO4)	1
	(a) confound	
	(b) modularize	
	(c) compound	
	(d) abstract	
1-h.	Which piece of code used in Android is not an open source? (CO4)	1
	(a) WiFi driver	
	(b) Audio driver	
	(c) Power management	
	(d) Keypad driver	
1-i.	Name the programming language used to develop iOS Applications. (CO5)	1
	(a) Swift and Objective C	
	(b) JAVA	
	(c) PHP	
	(d) None	
1-j.	Which framework does the class UIButton come from? (CO5)	1
	(a) CoreGraphics	
	(b) Foundation	
	(c) OpenGLES	
	(d) UIKit	
2. Attempt	•	
2.a.	Define the term usability in mobile application development. (CO1)	2
2.b.	What is ADB? Explain with example. (CO2)	2
2.c.	List 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 features of iOS. (CO5)	2
	SECTION B 30	
3. Answer	any <u>five</u> of the following:-	
3-a.	Design the Architecture of Android based native Mobile App. (CO1)	6
3-b.	Design the Architecture of iOS based native Mobile App. (CO1)	6
3-c.	What is multiple inheritance and how to perform it in Java. Also explain its importance in android if any. (CO2)	6
3-d.	Difference between Table Layout and Frame Layout with diagram. (CO2)	6
3.e.	What are the basic concepts of android layout also explain about their interlinked connection with Buttons, level text boxes and others? (CO3)	6
3.f.	Explain in detail the Model View Controller with a neat diagram. (CO4)	6
3.g.	Explain control transfer statements that are used in swift language. (CO5)	6
	SECTION C 50	
4. Answer	any one of the following:-	
4-a.	Differentiate web application and mobile application. (CO1)	10
4-b.	Discuss the SDK Architecture and explain it in detail. (CO1)	10
5. Answer	any one of the following:-	
5-a.	What is the difference between a class and an object? How it is created in android? (CO2)	10
5-b.	How Android supports multiple screens? Explain with an appropriate example. (CO2)	10
6. Answer	any one of the following:-	

6-a.	Explain in detail about Map View System of Google Maps. (CO3)	10
6-b.	Develop an android application that uses GUI components, fonts, and colors with output screen. (CO3)	10
7. Answer	any one of the following:-	
7-a.	Discuss testing and debugging of android application with suitable example. (CO4)	10
7-b.	How data persistence is done using SQLite database? (CO4)	10
8. Answer	any one of the following:-	
8-a.	Show the steps in creating simple "Hello World" iOS application along with code. (CO5)	10
8-b	What are the collection types that are available in swift? Explain with examples (CO5)	10