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Subject Code:- ACSIOT0401

Roll. No:

NOIDA INSTITUTE OF ENGINEERING AND TECHNOLOGY, GREATER NOIDA

(An Autonomous Institute Affiliated to AKTU, Lucknow)

B.Tech

SEM: IV - CARRY OVER THEORY EXAMINATION - SEPTEMBER 2022

Subject: Mobile Application Development

Time: 3 Hours

General Instructions:

1. The question paper comprises three sections, A, B, and C. You are expected to answer them as directed.

2. Section A - Question No- 1 is 1 marker & Question No- 2 carries 2 mark each.

3. Section B - Question No-3 is based on external choice carrying 6 marks each.

4. Section C - Questions No. 4-8 are within unit choice questions carrying 10 marks each.

5. No sheet should be left blank. Any written material after a blank sheet will not be evaluated/checked.

SECTION A

1. Attempt all parts:-

SIM stands for? (CO1) 1-a.

(a) Subscriber Interface Module

(b) Subscriber Identification Module

(c) Subscriber Interface Modem

(d) Subscriber Identification Modem

1-b. What is ADB in android? (CO1)

(a) Image Tool

(b) Development Tool

(c) Android Debug Bridge

(d) None of above

Which of the following virtual machines is used by the Android operating system? (CO2) 1-c.

(a) JVM

(b) Dalvik virtual machine

(c) Simple virtual machine

(d) None of the above

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Max. Marks: 100

1-d. Android is based on which of the following language? (CO2)

- (a) Java
- (b) C
- (c) C++
- (d) None of the above
- 1-e. For using Google map which permission you will specify in the AndroidManifest.xml? 1 (CO3)

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- (a) USEMAP
- (b) USE_GOOGLE_MAP
- (c) INTERNET
- (d) None of the above.
- 1-f. Which of the following method is used by services to clean up any services? (CO3)
 - (a) onStop() method
 - (b) stopService() method
 - (c) onDestroy() method
 - (d) stopSelf() method
- 1-g. As an Android programmer, what version of Android should you use as your minimum 1 development target? (CO4)
 - (a) Versions 1.6 or 2.0
 - (b) Versions 1.0 or 1.1
 - (c) Versions 1.2 or 1.3
 - (d) Versions 2.3 or 3.0
- 1-h. Which piece of code used in Android is not an open source? (CO4)
 - (a) WiFi driver
 - (b) Audio driver
 - (c) Power management
 - (d) Keypad driver

1-i. iOS stands for? (CO5)

- (a) Internet Operating System
- (b) Intelligent Operating System
- (c) iPhone Operating System
- (d) None of the above

- (a) Assign
- (b) Atomic
- (c) Non-atomic
- (d) None

2. Attempt all parts:-

2.a.	List Down the types of mobile applications. (CO1)		2
2.b.	What are the different versions of Android OS that you remember? (CO2)		2
2.c.	Name the various layouts in view group. (CO3)		2
2.d.	What type of software is/are required for android app development? (CO4)		2
2.e.	Explain features of iOS. (CO5)		2
	SECTION B	30	

3. Answer any five of the following:-

3-a. Write down the full form and explain the meaning of the various extensions used in mobile 6 development? (CO1)

a. Apk

- b. Phone
- c. Mobile
- d. Exe
- e. IPA

f. Prc

3-b.	Discuss the apple iOS platform for mobile applications. (CO1)	6
3-с.	What do you mean by interface and how they are applicable in android. (CO2)	6
3-d.	What is multiple inheritance and how to perform it in Java. Also explain its important android if any. (CO2)	ice in 6
3.e.	Explain the process of communication between sender and receiver with REST APIS an architecture. (CO3)	nd its 6
3.f.	Discuss android app development process flow using Android Studio, Eclipse, IntelliJ Which you find is most suitable. (CO4)	IDA. 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.	Differentiate Native apps, Hybrid apps and browser-based web apps. (CO1)	10		
5. Answer any <u>one</u> 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.	Explain the following things in the context of android device: Screen size, Screen density,	10		
	Orientation, Resolution, Density-independent pixel. (CO2)			
6. Answe	er any <u>one</u> of the following:-			
6-a.	Explain in detail about Map View System of Google Maps. (CO3)	10		
6-b.	Write the procedure to add the animations in User Interface in android. (CO3)	10		
7. Answer any <u>one</u> of the following:-				
7-a.	Explain with diagram the mobile cloud computing architecture. (CO4)	10		
7-b.	Explain the methods: getColumnNames(), getCount(), is Closed(), getPosition(),	10		
	openOrCreateDatabase(String path, SQLiteDatabase.CursorFactory factory) in SQLite			
	database. (CO4)			
8. Answer any <u>one</u> of the following:-				
8-a.	What are the collection types that are available in swift? Explain with examples. (CO5)	10		

8-b. Explain ACID properties. Does SQLite support the ACID properties. (CO5) 10