BCA6McoC310x   Seat No :_____

B.C.A Semester - 6 (*CBCS*) Examination
March/April-2024 (NEW COURSE)
Mobile Computing using Android and iPhone (Core (New))

Time: 2:30 Hours   **Marks: 70**

Instructions:
 1. All questions are compulsory.
 2. Figures to the right indicate marks.

Que-1(A)	Answer the following.	(03)
	1. Give full form: Android SDK	
	2. OHA was established in the year _____.	
	3. Layout is an Android service: True/False	
Que-1(B)	Attempt the following. (any two)	(06)
	1. List various Android Intents. Explain any one.	
	2. What is the use of Android Manifest file?	
	3. What is Emulator? Write its usefulness.	
	4. State the differences between onstart() and onresume()	
Que-1(C)	Attempt the following. (any one)	(05)
	1. Explain: Anatomy of an Android application	
	2. What are Resources? Explain various Layout Resources	
Que-2(A)	Answer the following.	(03)
	1. What is Frame by Frame Animation?	
	2. What is a fragment?	
	3. _____ is used to animate a label on screen.	
Que-2(B)	Attempt the following. (any two)	(06)
	1. Explain with example: ProgressBar	
	2. When Linear Layout is used? Explain.	
	3. Write a note on: Twined Animation	
	4. Show the use of: RadioGroup	
Que-2(C)	Attempt the following. (any one)	(05)
	1. List various UI elements. Construct an application using some of them	
	2. Create an application which shows the use of Table Layout.	
Que-3(A)	Answer the following.	(03)
	1. _____ is the inbuilt database of Android.	
	2. What is a database schema?	
	3. _____ method is used to save the changes to a Shared Preference.	
Que-3(B)	Attempt the following. (any two)	(06)
	1. Explain with example: Content Provider URL	
	2. What is Retrofit? Write its usefulness in developing android applications.	
	3. List various methods of SQLiteDatabase class. Explain any one.	
	4. Write a note on: ContentResolver	
Que-3(C)	Attempt the following. (any one)	(05)
	1. Explain in detail: Components of REST API	
	2. Write a code snippet that allows the insertion and deletion of records in Stud table managed using SQLite. Take the appropriate fields as per your choice.	

Que-4(A)   Answer the following.   (03)
1.   _____ API is used to find businesses/restaurant.
2.   Give full form: JSON
3.   _____ class is used to define properties of your status bar notification.

Que-4(B)   Attempt the following. (any two)   (06)
1.   Explain how to use GPS in Android.
2.   Explain the uses of Networking API.
3.   Explain how Telephony API is useful in Android
4.   List various Location based services. Explain any one.

Que-4(C)   Attempt the following. (any one)   (05)
1.   Write a detailed note on: Geocoding Locations
2.   Consider an Item table, which has item id, item name and item price fields. write a query to fetch the items having price lower than 1000 Rs. using JSON.

Que-5(A)   Answer the following.   (03)
1.   Give full form: MVC
2.   _____ is the IDE to develop applications for mac/Ios.
3.   What does Navigator button do?

Que-5(B)   Attempt the following. (any two)   (06)
1.   What is Storyboard? How is it useful in building iOS application?
2.   Explain Cocoa Touch Framework.
3.   Explain the usefulness of Cocoa Touch static library.
4.   State the main differences between text view and text field.

Que-5(C)   Attempt the following. (any one)   (05)
1.   Write in detail: advantages and disadvantages of using Cocoa Touch
2.   Design and develop an iOS application, showing Customized Menu containing basic Operations: insert/update/delete/exit. Take fields of your choice

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