

Enrollment No.....



Faculty of Science / Engineering

End Sem Examination May-2024

CA3SE10 Mobile Application Development

 Programme: BCA / BCA-
 MCA (Integrated)
 Branch/Specialisation: Computer
 Application
Duration: 3 Hrs.**Maximum Marks: 60**

Note: All questions are compulsory. Internal choices, if any, are indicated. Answers of Q.1 (MCQs) should be written in full instead of only a, b, c or d. Assume suitable data if necessary. Notations and symbols have their usual meaning.

- Q.1 i. Which one of the following is an inbuilt database in Android? **1**
 (a) SQLite (b) Free-Type
 (c) Web Driver (d) None of these
- ii. What is the recommended programming language for Android app development? **1**
 (a) Java (b) C++ (c) C (d) Swift
- iii. Which of the following holds color.xml? **1**
 (a) java/ (b) values/ (c) src/ (d) bin/
- iv. What is an activity in android? **1**
 (a) Android class
 (b) Android package
 (c) A single screen in an application with supporting java code
 (d) None of these
- v. The method used to register a component with OnClickListener is- **1**
 (a) onClick() (b) onClickListener ()
 (c) set OnClickListener () (d) None of these
- vi. Which attribute is used to apply a theme to an entire application in AndroidManifest.xml? **1**
 (a) android:layout (b) android:theme
 (c) android:style (d) android:application
- vii. Which of the following class in android displays information for a short period of time and disappears after some time? **1**
 (a) Toast class (b) Log class
 (c) MakeTest class (d) None of these

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- viii. Which of the following intents is used to initiate a phone call in Android? **1**
 (a) Intent.ACTION_DIAL
 (b) Intent.ACTION_CALL
 (c) Intent.ACTION_SENDTO
 (d) Intent.ACTION_VIEW
- ix. What is SQLite? **1**
 (a) A programming language
 (b) A relational database management system
 (c) An operating system
 (d) A web browser
- x. In Android, what method of SQLiteOpenHelper is called when the database needs to be created? **1**
 (a) onCreate() (b) onOpen()
 (c) onUpgrade() (d) onConfigure()
- Q.2 i. Describe key features of the Android operating system. **2**
 ii. Explain the Android ecosystem. **3**
 iii. Outline the history of Android from its inception to the present day. **5**
- OR iv. Discuss the components of the Android architecture. **5**
- Q.3 i. What is the purpose of the AndroidManifest.xml file? **2**
 ii. Differentiate between LinearLayout and RelativeLayout in Android. Provide examples of scenarios where each layout type is most suitable. **8**
- OR iii. Describe the ListView and Spinner GUI objects in Android. How are they used to display data, and what are their key differences in terms of functionality and appearance? **8**
- Q.4 i. Discuss the purpose of a Splash Screen in Android app development and its benefits. **2**
 ii. Describe the process of creating and applying a custom theme to an Android application. How can themes be used to ensure a consistent look and feel across the app? **8**
- OR iii. Explain Event Handling in detail with all interfaces used in event handling and callback inside it. **8**

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- Q.5 Attempt any two: **5**
 i. Implement a Toast message that displays "Hello, World!" when a button is clicked in an Android app. **5**
 ii. Develop a simple Android application that allows users to send an email when a button is clicked, using an Intent. **5**
 iii. Write a code to create a simple AlertDialog with a title, message, and a single "OK" button. **5**
- Q.6 Attempt any two: **5**
 i. Explain the concept of SQLite database and its significance in Android app development. How does it differ from other database management systems? **5**
 ii. Explain how to insert and update data in a SQLite database in Android. **5**
 iii. Describe the steps involved in creating and reading a database using a SQL Helper class in Android. **5**

Marking Scheme
Mobile Application Development (T) - CA3SE10 (T)

Q.1	i)	a) SQ Lite		1
	ii)	a) Java		1
	iii)	b) values/		1
	iv)	c) A single screen in an application with supporting java code		1
	v)	c) Set on click Liscence () d) None of these		1
	vi)	b) android:theme		1
	vii)	a) Toast class		1
	viii)	a) Intent. ACTION_DIAL b) Intent ACTION-CALL		1
	ix)	b) A relational database management system		1
	x)	a) onCreate()		1
Q.2	i.	Key features name	1 Marks	2
		Explanation	1 Marks	
	ii.	Explanation of the Android ecosystem:	2 Marks	3
		Clarity and depth of explanation:	1 Mark	
	iii.	Outline present day.	5 Marks	5
OR	iv.	Identification with diagram	3 Marks	5
		description of components:	2 Marks	
Q.3	i.	Purpose of the AndroidManifest.xml file	2 Marks	2
	ii.	Explanation of LinearLayout and RelativeLayout:	4 Marks	8
		Examples:	2 Marks	
		Clarity and depth of explanation:	2 Marks	

OR	iii.	Explanation of ListView	4 Marks	
		Display data and/appearance:	2 Marks	
		Clarity and depth of explanation:	2 Marks	
Q.4	i.	Purpose and benefits of Splash screen	2 Marks	2
	ii.	Explanation custom themes:	4 Marks	8
		Code and steps for explanation:	4 Marks	
OR	iii.	Explanation interfaces:	4 Marks	8
		Discussion of callbacks and their usage:	4 Marks	
Q.5	i.	Correct button:	3 Mark	5
		Code display a Toast message with "Hello world":	2 marks	
	ii.	Correct button:	3 Marks	5
		Code to create an Intent for sending an email:	2 Marks	
	iii.	Correct implementation of AlertDialog.Builder:	2 Mark	5
		Code to set title an..... button:	3 Mark	
Q.6				
	i.	Android app development:	3 Marks	5
		Comparison of systems:	2 Marks	
	ii.	Explanation of database:	2.5 Marks	5
		Explanation database:	2.5 Marks	
	iii.	Steps a SQL Helper class in Android.	2.5 Maks	5
		Steps SQL Helper class in Android.	2.5 Marks	
