


UNIVERSITY OF MUMBAI
T.Y.B.Sc. INFORMATION TECHNOLOGY PRACTICAL EXAMINATION
SEMESTER VI
ANDROID PROGRAMMING PRACTICAL

Seat No:

Max. Marks: 50

1.	Create the standard calculator application in android 	30
2.	Create a simple "Hello World" application in Android Studio. Explain the purpose of the MainActivity and the activity_main.xml file.	10
3.	Viva	5
4.	Journal	5

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Seat No: _____

Max. Marks: 50

1.	Create a login screen with EditText fields for username and password, and a Button to submit. Include validation for empty fields.	20
2.	Create an android application to display Alert Dialog on pressing the Back button.	20
3.	Viva	5
4.	Journal	5

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1.	Create an android application to pass the data from one activity to another activity in the same application using intent.	10
2.	Create a user interface with a TextView, Button, and ImageView. When the button is clicked, the image should be changed dynamically.	30
3.	Viva	5
4.	Journal	5

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Max. Marks: 50

1.	Create the background service android application to play the ringtone/music.	20
2.	Create an android application which automatically notify the user when Aeroplane mode is turned on or off using broadcast receiver.	20
3.	Viva	5
4.	Journal	5

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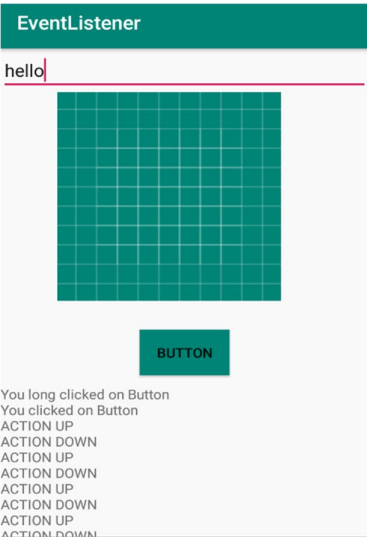
Max. Marks: 50

1.	Explain the Android Activity life cycle in detail. Implement a simple app that logs the lifecycle methods (onCreate(), onStart(), onResume(), onPause(), onStop(), onDestroy()).	40
2.	Viva	5
3.	Journal	5

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Max. Marks: 50

1.	Create an android application to pass the data from one activity to another activity in the same application using intent.	10
2.	<p>Create an android application to demonstrate the following event listeners on the following widgets</p> <p>Button: on click listener, long click listener</p> <p>Image: Touch listener with these motion events =>Action up, action down and action pointer down</p> <p>Edit Text : key listener on Enter key</p> <p>The Appropriate message should be displayed in text view.</p> 	30
3.	Viva	5
4.	Journal	5

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Max. Marks: 50

1.	Create an android application to pass the data from one activity to another activity in the same application using intent.	20
2.	Implement a custom color scheme for your registration form. Set the background color of the entire layout to a light color, and use a contrasting color for the Submit button.	20
3.	Viva	5
4.	Journal	5

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Seat No: _____

Max. Marks: 50

1.	Insert the new contents in the following resources and demonstrate their uses in the android application Android Resources: (Color, Theme, String, Drawable, Dimension, Image)	20
2.	Create an android application which automatically notify the user when Aeroplane mode is turned on or off using broadcast receiver.	20
3.	Viva	5
4.	Journal	5

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1.	Define the following string resources in the strings.xml file for the registration form: <ul style="list-style-type: none">"Full Name", "Email", "Password", "Confirm Password", and "Submit".Use these string resources in the corresponding TextView and Button in your layout XML.	40
2.	Viva	5
3.	Journal	5

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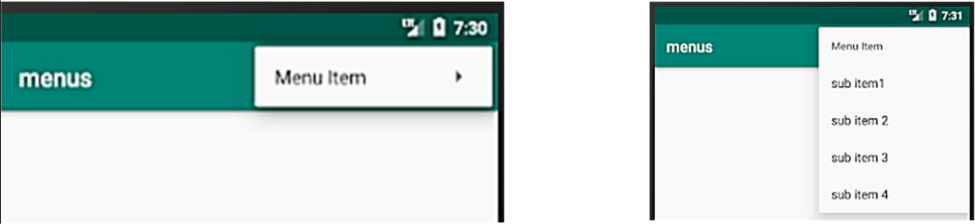
Max. Marks: 50

1.	Create a registration form where the form fields (Name, Email, Password, Confirm Password) are stacked vertically. Include a Submit button at the bottom of the form.	25
2.	Create an android application, with one button and image view also set the background image in the application, the image should be changed on each click of the button (Use two images).	15
3.	Viva	5
4.	Journal	5

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Max. Marks: 50

1.	Create an android application to demonstrate the use of sub menu the toast should be appeared by selecting the sub menu item	25
		
2.	Design a form with a RadioGroup for selecting the gender (Male/Female/Other). Include a Submit button that shows the selected gender in a TextView .	15
3.	Viva	5
4.	Journal	5

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1.	Create a RelativeLayout for a profile screen with: <ul style="list-style-type: none"> • A Profile Image centered at the top of the screen. • A TextView displaying the name below the profile image, aligned to the center. • A Button below the name, aligned to the center. 	20
2.	Write a program that logs the different lifecycle methods of an Activity (e.g., onCreate(), onStart(), onResume(), onPause(), onStop(), onDestroy()) to the logcat.	20
3.	Viva	5
4.	Journal	5

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Max. Marks: 50

1.	Design a ListView that displays a list of items. Each item should be a simple TextView with a string from an array of names. The list should be populated dynamically in your Activity.	40
2.	Viva	5
3.	Journal	5

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Max. Marks: 50

1.	Create an Activity that hosts a Fragment . When a button in the Activity is clicked, pass a string value to the Fragment and display it in a TextView .	20
2.	Create an android application using linear layout and insert 10 animals in the list view and display the appropriate Toast.	20
3.	Viva	5
4.	Journal	5

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1.	Create an app that displays an ImageView . When the user clicks the ImageView , show a Toast with the message "Image clicked!".	20
2.	Create the background service android application to play the ringtone/music.	20
3.	Viva	5
4.	Journal	5

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1.	Design a simple login form using ConstraintLayout that has: <ul style="list-style-type: none">• Username and Password fields aligned vertically.• Login button centered horizontally below the fields.• Forgot Password? link aligned to the right of the password field.• Task: Position all the elements using constraints in the ConstraintLayout.	40
2.	Viva	5
3.	Journal	5

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Max. Marks: 50

1.	Create an android application to demonstrate the use of sub menu the toast should be appeared by selecting the sub menu item	25
		
2.	Design a screen with two buttons: Start and Stop . When the Start button is clicked, start a Timer (display the time in seconds). When the Stop button is clicked, stop the timer.	15
3.	Viva	5
4.	Journal	5

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Seat No: _____

Max. Marks: 50

1.	Create a simple Registration Form with the following fields: <ul style="list-style-type: none"> • Name (Text Input) • Email (Text Input) • Phone Number (Text Input) • Password (Password Input) • Confirm Password (Password Input) • Submit Button 	40
2.	Viva	5
3.	Journal	5

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Max. Marks: 50

1.	Create a Registration Form with the following fields: <ul style="list-style-type: none"> • First Name (Text Input) • Last Name (Text Input) • Email Address (Text Input) • Country (Spinner Dropdown) • Password (Password Input) • Confirm Password (Password Input) • Submit Button 	40
2.	Viva	5
3.	Journal	5

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1.	Create a Registration Form with the following fields: <ul style="list-style-type: none"> • Username (Text Input) • Email Address (Text Input) • Gender (Radio Buttons with options "Male" and "Female") • Password (Password Input) • Submit Button 	40
2.	Viva	5
3.	Journal	5

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Max. Marks: 50

1.	Create a Registration Form with the following fields: <ul style="list-style-type: none"> • Username (Text Input) • Email Address (Text Input) • Phone Number (Text Input) • Password (Password Input) • Submit Button (Floating Action Button) • 	40
2.	Viva	5
3.	Journal	5

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Seat No: _____

Max. Marks: 50

1.	Design a Registration Form that includes: <ul style="list-style-type: none">• Name (Text Input)• Date of Birth (Date Picker)• Email Address (Text Input)• Phone Number (Text Input)• Password (Password Input)• Submit Button	40
2.	Viva	5
3.	Journal	5

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Seat No: _____

Max. Marks: 50

1.	Create a Registration Form with the following fields: <ul style="list-style-type: none">• Username (Text Input)• Email Address (Text Input)• Agree to Terms and Conditions (Checkbox)• Password (Password Input)• Confirm Password (Password Input)• Submit Button	40
2.	Viva	5
3.	Journal	5

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Max. Marks: 50

1.	Create a Registration Form with the following fields: <ul style="list-style-type: none">• Username (Text Input)• Email Address (Text Input)• Password (Password Input)• Confirm Password (Password Input)• Profile Picture (Image Upload Button)• Submit Button	40
2.	Viva	5
3.	Journal	5

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Seat No: _____

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1.	Write a program that creates a Service to download a file in the background. While the file is downloading, show a Notification indicating the progress. Once the download is complete, the notification should be updated to show "Download Complete."	40
2.	Viva	5
3.	Journal	5

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Seat No: _____

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1.	Create a BroadcastReceiver that listens for the Android Intent ACTION_BATTERY_CHANGED broadcast and shows a Toast displaying the current battery percentage.	40
2.	Viva	5
3.	Journal	5

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Seat No: _____

Max. Marks: 50

1.	Create an app that listens for ACTION_AIRPLANE_MODE_CHANGED using a BroadcastReceiver . Display a Toast message whenever the airplane mode is turned on or off.	40
2.	Viva	5
3.	Journal	5

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ANDROID PROGRAMMING PRACTICAL

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1.	Write a program that uses a Service to perform a task in the background, and once the task is completed, it sends a broadcast. A BroadcastReceiver will listen for the completion broadcast and display a Notification when the task is done.	40
2.	Viva	5
3.	Journal	5