

Riphah School of Computing & Innovation (RSCI) Riphah International University, Lahore BS CS Program Semester (6th)

Midterm Exam (FALL - 2022)

Subject: Mobile Application Development Lab
Marks: 20 (Practical + Viva)

Instructions for the Submission:

- All Questions are compulsory (Compulsion is bad, I know).
- All codes are required to be provided in GO language only.
- Marks will be given as per the depth of the answer, not length (as this is no beauty contest).
- Answer without logic is illogical (Simple logic) Carefully write your Name and Sap ID before attempting.
- Copied answers caused 0 marks.
- LATE SUBMISSIONS WILL NOT BE ALLOWED.

Sap	ID.	Haider Rasheed	Name:	1//5/
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Q1: Create a Custom Calendar App to store reminders and events using SQLite Database in Android Studio? [5 Marks]

```
package example.abhiandroid.calenderviewexample;
import android.graphics.Color;
import android.os.Bundle;
import android.widget.CalendarView;
import android.widget.Toast;
import androidx.appcompat.app.AppCompatActivity;
import com.example.calendarviewexample.R;
public class MainActivity extends AppCompatActivity {
```

```
CalendarView simpleCalendarView;

@Override
protected void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
    setContentView(R.layout.activity main);
    simpleCalendarView = findViewById(R.id.simpleCalendarView); // get
the reference of CalendarView
    simpleCalendarView.setFocusedMonthDateColor(Color.RED); // set the
red color for the dates of focused month
    simpleCalendarView.setUnfocusedMonthDateColor(Color.BLUE); // set
the yellow color for the dates of an unfocused month
    simpleCalendarView.setSelectedWeekBackgroundColor(Color.RED); //
red color for the selected week's background
    simpleCalendarView.setWeekSeparatorLineColor(Color.GREEN); //
green color for the week separator line
    // perform setOnDateChangeListener event on CalendarView
    simpleCalendarView.setOnDateChangeListener((view, year, month,
dayOfMonth) -> {
    // display the selected date by using a toast
        Toast.makeText(getApplicationContext(), dayOfMonth + "" +
month + "/" + year, Toast.LENGTH_LONG).show();
    });
}
```



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Q2: Create a Custom Create a Wallpaper App in Android Studio using Kotlin Language? [5 Marks]



MainActivity.class:

package com.android.wallpaperbackgrapp;

```
import android.app.WallpaperManager;
protected void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
   background2 = findViewById(R.id.background2);
    background3 = findViewById(R.id.background3);
    background3.setOnClickListener(this);
   background4.setOnClickListener(this);
void loadBackgrounds() {
void updateBackground(int background) {
```

```
Goverride
public void onClick(View view) {
    if(view == background1) {
        updateBackground(backgrounds[0]);
        return;
    }

    if(view == background2) {
        updateBackground(backgrounds[1]);
        return;
    }

    if(view == background3) {
        updateBackground(backgrounds[2]);
        return;
    }

    if(view == background4) {
        updateBackground(backgrounds[3]);
        return;
    }
}
```

```
android:layout width="0dp"
                         android:layout width="0dp"
</LinearLayout>
AndroidManifest.xml:
```





