Student Enrollment No: _____

GANPAT UNIVERSITY

B. TECH (CE/IT/CE-AI) SEM-V REGULAR EXAMINATION– NOV-DEC 2021

2CEIT5PE5: MOBILE APPLICATION DEVELOPMENT

Time: 1.5 Hour] **[Total Marks: 30**

Instructions:

1. Figures to the right indicate full marks.
2. Be precise and to the point in your answer.
3. Assume the suitable data wherever necessary.

Q-1 **5**

```
//1 marks
fun deleteNote(note: Notes) {
    val db = this.writableDatabase
    db.delete(
        NotesData.TABLE_NAME,
        NotesData.COLUMN_ID + " = ?",
        arrayOf(note.id.toString())
    )
    db.close()
}
//2 marks
val allNotes: ArrayList<Notes>
    get() {
        val notes = ArrayList<Notes>()
        // Select All Query
        val selectQuery = "SELECT  * FROM " + NotesData.TABLE_NAME.toString() + "
ORDER BY " +
                NotesData.COLUMN_TIMESTAMP.toString() + " DESC"
        val db = this.writableDatabase
        val cursor = db.rawQuery(selectQuery, null)
        // looping through all rows and adding to list
        if (cursor.moveToFirst()) {
            do {
                notes.add(getNote(cursor))
            } while (cursor.moveToNext())
        }
        // close db connection
        db.close()
        // return notes list
        return notes
    }
//2 marks
fun insertNote(note: Notes): Long {
    // get writable database as we want to write data
    val db = this.writableDatabase
    // insert row
    val id = db.insert(NotesData.TABLE_NAME, null, getValues(note))
```

```
    // close db connection
    db.close()
    // return newly inserted row id
    return id
}
```

Q-2 — 5

```
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout
    xmlns:tools="http://schemas.android.com/tools"
    xmlns:android="http://schemas.android.com/apk/res/android"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:orientation="vertical"
    >
        <LinearLayout
            android:layout_width="match_parent"
            android:layout_height="0dp"
            android:orientation="horizontal"
            android:layout_weight="0.5">
            <LinearLayout
                android:layout_width="0dp"
                android:layout_height="match_parent"
                android:background="#0000FF"
                android:layout_weight="0.5"
                />
            <LinearLayout
                android:layout_width="0dp"
                android:layout_height="match_parent"
                android:orientation="vertical"
                android:layout_weight="0.5">
                <LinearLayout
                    android:layout_width="match_parent"
                    android:layout_height="0dp"
                    android:layout_weight="0.5"
                    android:orientation="horizontal"
                    android:background="#FF0000"/>
                <LinearLayout
                    android:layout_width="match_parent"
                    android:layout_height="0dp"
                    android:layout_weight="0.5"
                    android:orientation="horizontal"
                    android:background="#00FF00"/>
            </LinearLayout>
        </LinearLayout>
    <LinearLayout
        android:background="#FF00FF"
        android:layout_width="match_parent"
        android:layout_height="0dp"
        android:layout_weight="0.5"
        android:orientation="horizontal"/>
    </LinearLayout>
```

Q-3 — 5

```
//2 marks
```

```
class SMSBroadcastReceiver : BroadcastReceiver() {
    override fun onReceive(context: Context, intent: Intent) {
        if (intent.action == Telephony.Sms.Intents.SMS_RECEIVED_ACTION) {
            var sPhoneNo = ""
            var sSMSBody = ""
            if (Build.VERSION.SDK_INT >= Build.VERSION_CODES.M) {
                for (smsMessage in
Telephony.Sms.Intents.getMessagesFromIntent(intent)) {
                    sPhoneNo = smsMessage.displayOriginatingAddress
                    sSMSBody += smsMessage.messageBody
                }
            }
        }
    }
}

//2 marks
val PhoneNo = editPhoneNo.getText().toString()
val sMessage = editMessage.getText().toString()
val smsManger = SmsManager.getDefault()
smsManger.sendTextMessage(PhoneNo, null, sMessage, null, null)

//1 marks
<uses-permission android:name="android.permission.RECEIVE_SMS"/>
<uses-permission android:name="android.permission.READ_SMS"/>
<uses-permission android:name="android.permission.SEND_SMS"/>
```

Q-4

```
    override fun onMapReady(googleMap: GoogleMap) {
        mMap = googleMap
        mMap.mapType=GoogleMap.MAP_TYPE_TERRAIN
        // Add a marker in Sydney and move the camera
        val ahd = LatLng(23.0225, 72.5714)
        mMap.addMarker(MarkerOptions().position(mehsana)
                .title("Ahmedabad")
                .snippet("Welcome Ahmedabad")
                .icon(BitmapDescriptorFactory.fromResource(R.drawable.image1)))
        //
        mMap.moveCamera(CameraUpdateFactory.newLatLngZoom(mehsana,15f))
    }
}
```

5

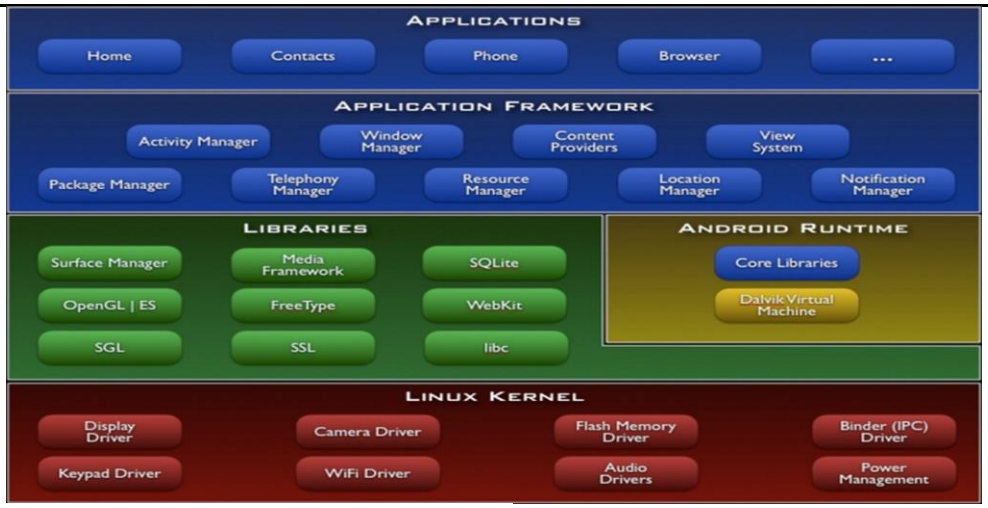
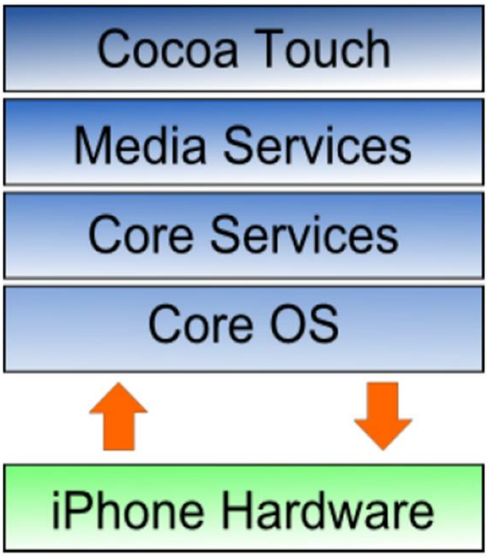
Q-5

5

```
<application
    android:allowBackup="true"
    android:icon="@mipmap/ic_launcher"
    android:label="HitMp3Player"
    android:roundIcon="@mipmap/ic_launcher_round"
    android:supportsRtl="true"
    android:theme="@style/AppTheme">
    <service android:name=".MyService"/>
```

```
class MainActivity : AppCompatActivity() {
    override fun onCreate(savedInstanceState: Bundle?) {
        super.onCreate(savedInstanceState)
        setContentView(R.layout.activity_main)
        buttonStart.setOnClickListener(View.OnClickListener { it: View!
            var intent = Intent(applicationContext,MyService::class.java)
           intent.putExtra( name: "Service1", value: "Play")
            startService(intent)
        })
        button3.setOnClickListener(View.OnClickListener { it: View!
            var intent = Intent(applicationContext,MyService::class.java)
            intent.putExtra( name: "Service1", value: "Pause")
            startService(intent)
        })
        buttonStop.setOnClickListener(View.OnClickListener { it: View!
            var intent = Intent(applicationContext,MyService::class.java)
            stopService(intent)
        })
    }
```

```
class MyService : Service() {
   lateinit var mediaPlayer:MediaPlayer
    override fun onBind(intent: Intent): IBinder {
        TODO( reason: "Return the communication channel to the service.")
    }
    override fun onStartCommand(intent: Intent?, flags: Int, startId: Int): Int {
       if (!this::mediaPlayer.isInitialized)
        mediaPlayer=MediaPlayer.create( context: this,R.raw.chandsifarish)
         val str1:String=intent!!.getStringExtra( name: "Service1")
        if (str1=="Play")
        mediaPlayer.start()
        else if (str1=="Pause")
            mediaPlayer.pause()
      //  return super.onStartCommand(intent, flags, startId)
        return START_STICKY
    }
    override fun onDestroy() {
        mediaPlayer.stop()
        super.onDestroy()
    }
}
```

Q-6	  [iPhone Architecture]	**5**

----------*