

GANPAT UNIVERSITY
U. V. PATEL COLLEGE OF ENGINEERING
B. TECH. SEMESTER – V (CE/IT/CE-AI)
SECOND INTERNAL EXAMINATION, OCT-2021
2CEIT5PE5: MOBILE APPLICATION DEVELOPMENT

Time: 1 Hour]**[Total Marks: 20****Instructions:**

1. Figures to the right indicate full marks.
2. Be precise and to the point in your answer.

- Q-1** Assume that JSON data as shown in image is available to you. Create Employee Class which is used to store data. Create ParseJsonData() method to Parse JSON data and that method returns array of object of class Employee according to JSON data. **[4]**

```
[
  {
    "_id": "617675c43f3258f510fd9f7c",
    "name": "Loretta Spencer",
    "email": "lorettaspencer@jumpstack.com",
    "phone": "+91 (804) 464-2328",
    "address": "537 Guider Avenue, Shasta, Rhode Island, 9284"
  },
  {
    "_id": "617675c448849735de6f2ca5",
    "name": "Elaine Willis",
    "email": "elainewillis@jumpstack.com",
    "phone": "+91 (983) 521-3110",
    "address": "264 Central Avenue, Grapeview, Indiana, 3035"
  }
]
```

- Q-2** What is the difference between SQLite & SharedPreferences? Write down code to fetch data by using sharedPreferences (write code in getPrefValue method) and store data by using sharedPreferences (write code in setPrefValue method) by using getDefaultSharedPreferences as it is shown in following code: **[4]**

```
class PrefUtil {
    companion object {
        fun getPrefValue(context: Context, key: String): String? {
            // Write Code Here
        }

        fun setPrefValue(context: Context, key: String, value: String) {
            // Write Code Here
        }
    }
}
```

- Q.3** Write a xml code for tween animation in which the object can rotate for 2 seconds and at the same time grow (scale) for the first 1 second & after 1 second it will shrink (scale) & get the original position so total time of animation will be 2 seconds. Write animation.xml file. **[4]**

- Q-4** Write the code for the Option menu where there are three items named Black, Orange and Yellow. When user click on particular color name then background of layout set to that particular color. Write **MainActivity.kt file**. (Only write code of “Write your code Here” section in your answer for MainActivity.kt file, Write your answer with title Answer-1 or Answer-2) **[4]**

import ...

MainActivity.kt File

```
class MainActivity : AppCompatActivity() {
    var relativeLayout: RelativeLayout? = null
    var textView: TextView? = null
    override fun onCreate(savedInstanceState: Bundle?) {
        super.onCreate(savedInstanceState)
        setContentView(R.layout.activity_main)
        relativeLayout = findViewById(R.id.rl1)
        textView = findViewById(R.id.tv1)
        relativeLayout!!.setOnCreateContextMenuListener(this)
    }
```

```
    override fun onCreateOptionsMenu(menu: Menu): Boolean {
```

Write your code here Answer-1

```
        return super.onCreateOptionsMenu(menu)
    }
```

```
    override fun onOptionsItemSelected(item: MenuItem): Boolean {
```

Write your code here Answer-2

```
        return super.onOptionsItemSelected(item)
    }
```

```
}
```

- Q-5** What are the different types of resources available in android? Explain the res directory structure with respect to different resources. Also differentiate between style and theme with example. **[4]**

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