Reg.No. \_\_\_\_\_\_\_\_\_\_\_\_



**UNIVERSITY**

(Karunya Institute of Technology & Sciences)

(Declared as Deemed-to-be University under Sec.3 of the UGC Act, 1956)

**End Semester Examination – April / May – 2017**

|  |  |  |  |
| --- | --- | --- | --- |
|  |  |  |  |
| **Code :** | **14CS2063** | **Duration :** | **3hrs** |
| **Sub. Name :** | **MOBILE APPLICATION DEVELOPMENT USING ANDROID** | **Max. marks :** | **100** |

**ANSWER ALL QUESTIONS (5 x 20 = 100 Marks)**

|  |  |  |  |
| --- | --- | --- | --- |
| **Q. No.** | **Sub Div.** | **Questions** | Marks |
| 1. |  | Explain the various layers in Android architecture with necessary diagram. | 20 |
| (OR) | | | |
| 2. | a. | Explain the various types of Android applications. | 8 |
| b. | Explain the various hardware-imposed design considerations. | 12 |
|  |  |  |  |
| 3. |  | Explain the life cycle of Activity in Android with diagram and sample code. | 20 |
| (OR) | | | |
| 4. |  | Write the necessary source code to develop a mobile application to manage the details of students with the following features. |  |
|  | a. | Register the student with name, register number, gender and address. | 10 |
|  | b. | Search the details of a particular student through the register number and display the same. | 10 |
|  |  |  |  |
| 5. |  | Write the necessary source code to develop a mobile application to play a song in the background. Retrieve the song either from raw folder or sd card. | 20 |
| (OR) | | | |
| 6. |  | Write the sample source code to do the following opeartions. |  |
|  | a. | Insert data into the SQLite. | 6 |
|  | b. | Retrive data from the SQLite. | 7 |
|  | c. | Edit the data in the SQLite. | 7 |
|  |  |  |  |
| 7. |  | Write the necessary source code to spot a place in google map whose latitude is 10.9405 and longitude is 76.7423. | 20 |
| (OR) | | | |
| 8. |  | Write the necessary source code to retrieve the contact name and number form people/contact application by using ContentProvider. Set the necessary permission in AndroidManifest.xml file to read the contact. | 20 |
|  | | **Compulsory:** |  |
| 9. |  | Write the necessary source code to develop an Android application which manages Wifi with the following operations. |  |
|  | a. | Switch on/off Wifi. | 8 |
|  | b. | Scan the available Wifi connections. | 12 |