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 – Nov/Dec – 2016**

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|  |  | **Semester :** | **2016-17 ODD** |
| **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** | **Course**  **Outcome** | **Marks** |
| 1. | a. | Explain the various building blocks of Android. |  | **15** |
| **(OR)** | | | | |
| 2. | a. | Explain the design philosophy demands in Android application. |  | **15** |
|  |  |  |  |
| 3. |  | Write the necessary source code to develop an Android application with the following features. |  |  |
|  | a. | Generate a list view with the names of various planets. |  | **7** |
|  | b. | Display the information of a particular planet, when an item in that list is tapped. |  | **8** |
| **(OR)** | | | | |
| 4. | a. | Explain the life cycle of Fragment with necessary diagram and source code. |  | **15** |
|  |  |  |  |  |
| 5. |  | Write the sample code to do the following animations for a View object. |  |  |
|  | a. | Fade In and Fade Out |  | **7** |
|  | b. | Zoom In and Zoom Out |  | **8** |
| **(OR)** | | | | |
| 6. | a. | Write the necessary source code to download an internet resource using DownloadManager. |  | **15** |
|  |  |  |  |  |
| 7. | a. | Write sample code to send email in Android using intent. |  | **6** |
|  | b. | Write sample code to send SMS in Android using intent. |  | **6** |
|  | c. | Write the permission code in Android-Manifest.xml file to send SMS. |  | **3** |
| **(OR)** | | | | |
| 8. | a. | Write the necessary source code to spot Karunya Nagar in google map. Latitude is 10.9393 and longitude is 76.7466. |  |  |
|  |  |  |  |  |
|  | | **Compulsory:** |  |  |
| 9. | a. | Write the necessary code to develop an Android app which manages the bluetooth with the following operations. |  |  |
|  | b. | Switch on/off the bluetooth |  | **7** |
|  | c. | Scan the paired devices |  | **8** |

ALL THE BEST