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**IV.B.TECH- I-SEM (R20)-I MID EXAMINATIONS-AUGUST-2023 Date: 31/08/2022**

**Subject: Mobile Application Development Time: 10:00 TO 11:30 AM**

**Branch: IT Marks: 25 M**

***Answer All Questions In Part-A& Part-B***

**PART –A 5\*2=10 M**

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| --- | --- | --- | --- |
|  |  | **BTL** | **CO** |
| **1.** | Differentiate between different types of Android applications. | **4** | **2** |
| **2.** | Describe the purpose and contents of the AndroidManifest.xml file. | **2** | **1** |
| **3.** | What is device-independent measuring units in Android UI design? | **2** | **2** |
| **4.** | What is the role of Dialogs and Pickers in Android UI design? | **2** | **1** |
| **5.** | What is the difference between interfacing between fragments and Activities? | **4** | **2** |

**Part –B** **3\*5=15 M**

|  |  |  |  |
| --- | --- | --- | --- |
| **6.** | Provide a comprehensive overview of the Android operating system and its architecture  **(OR)** | **6** | **3** |
| **7.** | Describe the Android activity lifecycle. Illustrate with an example how an activity transitions through different states during its lifecycle. | **3** | **3** |
| **8.** | Explain the role and purpose of Android development tools like Android Studio, ADB (Android Debug Bridge), and DDMS (Dalvik Debug Monitor Server).  **(OR)** | **2** | **2** |
| **9.** | Explain Fragment Life Cycle. Illustrate with an example how a fragment transitions through different state during its lifecycle. | **3** | **2** |
| **10.** | Explore the concept of interfacing between fragments and Activities. How does communication occur between these two types of components?  **(OR)** | **4** | **2** |
| **11.** | Illustrate with examples how you can use intent to perform native actions, such as opening a web browser or dialling a phone number in Android. | **3** | **3** |

**SCHEME OF EVALUATION**

**Part –A**

| **SNO** | **THEORY** | **MARKS** | **TOTAL** |
| --- | --- | --- | --- |
| **1** | Differentiate between different types of Android applications. | **2** | **2** |
| **2** | Describe the purpose and contents of the AndroidManifest.xml file. | **2** | **2** |
| **3** | What is device-independent measuring units in Android UI design? | **2** | **2** |
| **4** | What is the role of Dialogs and Pickers in Android UI design? | **2** | **2** |
| **5** | What is the difference between interfacing between fragments and Activities? | **2** | **2** |

**Part –B**

| **SNO** | **THEORY** | **MARKS** | **TOTAL** |
| --- | --- | --- | --- |
| **6** | Provide a comprehensive overview of the Android operating system and its architecture.  **(OR)** | **5** | **5** |
| **7** | Describe the Android activity lifecycle. Illustrate with an example how an activity transitions through different states during its lifecycle. | **5** |  |
| **8** | Explain the role and purpose of Android development tools like Android Studio, ADB (Android Debug Bridge), and DDMS (Dalvik Debug Monitor Server).  **(OR)** | **5** | **5** |
| **9** | Explain Fragment Life Cycle. Illustrate with an example how a fragment transitions through different state during its lifecycle. | **5** |  |
| **10** | Explore the concept of interfacing between fragments and Activities. How does communication occur between these two types of components?  **(OR)** | **5** | **5** |
| **11** | Illustrate with examples how you can use intent to perform native actions, such as opening a web browser or dialling a phone number in Android. | **5** |  |