**Question Bank**

**Subject: PH 532.2 Mobile Application Development with Android**

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|  | **SECTION I** |  |
|  | Explain the feature of android application and SDK. | **07 marks** |
|  | Explain the Architecture of Android &the Installing and Configuration of AVD. | **07 marks** |
|  | Explain the Components of the screen with examples. | **07 marks** |
|  | Explain the Steps involved Dalvik Virtual Machine | **07 marks** |
|  | Which are the four main components of android application? Explain them. | **07 marks** |
|  | What is DDMS? What are the advantages of using DDMS. | **07 marks** |
|  | Explain the different types of mobile applications. | **07 marks** |
|  | Define android and explain in detail about android architecture. | **07 marks** |
|  | What are resources in android. Explain each resource with an example. | **07 marks** |
|  | How is an android project organized in android studio. Explain the significance of each. | **07 marks** |

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|  | **SECTION II** |  |
|  | Write note on Picker and List Views in Android | **07 marks** |
|  | Write an Android Application Program for handling UI Events | **07 marks** |
|  | Explain Fragments and Intents with an Android Application Program. | **07 marks** |
|  | Explain the Various Layouts, Controls and Views in Android | **07 marks** |
|  | What are fragments? How do you incorporate fragments into an activity. | **07 marks** |
|  | How do you create alert dialog control? Explain the process of handling positive button click event in alert dialog. | **07 marks** |
|  | What is an android view. Explain its features and significance. | **07 marks** |
|  | Write short notes about permission manager in android with an example. | **07 marks** |
|  | Explain the working of date and time pickers in android with code. | **07 marks** |
|  | Explain the different types of dialogs available in android with example. | **07 marks** |
|  | Explain the different types of menus. | **07 marks** |
|  | Explain different types of controls. Such as Textbox, button, ckeckbox, etc | **07 marks** |
|  | Explain different types of intent. Explain intent filters. | **07 marks** |

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|  | **SECTION III** |  |
|  | **Explain the activity application life cycle with a neat diagram.** | **07 marks** |
|  | What are content providers? What are the advantage of using content providers. | **07 marks** |
|  | What is an activity in android. Explain the activity life cycle of android with a neat diagram. | **07 marks** |
|  | Explain briefly about the android manifest file and its significance. | **07 marks** |
|  | Write the usage and syntax of the following controls: Button and Spinner. | **07 marks** |
|  | Write a short note on BroadCast Receiver. Write the steps for creating, registering and unregistering broadcast receiver. | **07 marks** |
|  | What is content provider. Write the steps for creating and using content provider take any example. | **07 marks** |
|  | Explain bound service and unbound service. Explain the life cycle of services. | **07 marks** |
|  | Write the usage and syntax of the following controls: TextView and Button. | **07 marks** |
|  | Write the usage and syntax of the following controls: Radio Button and checkbox. | **07 marks** |
|  | Explain content resolver and cursor concept in android. | **07 marks** |

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| **SECTION IV** | | |
|  | Describe the content values and cursors in Android with a program. | **07 marks** |
|  | Explain the Working with SQLite Databases. | **07 marks** |
|  | What is shared preference? How do you store and retrieve values from shared preference. | **07 marks** |
|  | Compare the characteristics of internal and external storage in android. | **07 marks** |
|  | How do you perform transaction processing in sqlite? Explain with a simple example. | **07 marks** |
|  | What are shared preference. Explain the feature and syntax of shared preferences. | **07 marks** |
|  | How to access files and directories in android. Explain with syntax. | **07 marks** |
|  | Explain the steps to store and retrieve value from the shared preference. | **07 marks** |
|  | Explain the steps to store and retrieve data from the internal storage. | **07 marks** |
|  | Explain the steps to store and retrieve data from the external storage. | **07 marks** |

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|  | **SECTION V** |  |
|  | 1. Explain the Terms    1. Sensors    2. Vibration | **07 marks** |
|  | Explain the working of Maps, Geocoding and GPS with suitable Examples. | **07 marks** |
|  | With Examples what is Touch and Multi touch functions. | **07 marks** |
|  | what is sensor? List the common types of sensors used in android. What is the use of sensor manager in android. | **07 marks** |
|  | How to use audio, video and image in android. Explain the code. | **07 marks** |
|  | How to use audio in android? Explain the code. | **07 marks** |
|  | How to use image in android? Explain the code. | **07 marks** |
|  | **What is service? Explain the different types of services.** | **07 marks** |
|  | With a neat diagram, explain the life cycle of bound service. | **07 marks** |
|  | How to use video in android? Explain the code. | **07 marks** |
|  | Explain the concept of Telephony and SMS. | **07 marks** |
|  | Explain the concept of Text-to-speech. | **07 marks** |
|  | Explain Notification, vibration and alarms. | **07 marks** |
|  | **Explain the android application using background threads** | **07 marks** |

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