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**B.C.A. SEMESTER V****Computer Science Elective -Mobile Application Development****[Time: 2 hours]****[Max. Marks: 60 ]**

- Instructions:** i) *All questions are compulsory*  
 ii) *Figures to the right indicate full marks.*

**Q.1. A. Define the following terms:****(5×1=05)**

- a) Intent.
- b) WebView.
- c) Theme.
- d) ListView.
- e) GridView.

**B. Answer the following questions:****(5×1=05)**

- a) Give one example of URI query string used in content providers.
- b) Name two picker views available in android UI.
- c) Name any two requirement gathering techniques.
- d) Name any two units of measurement recommended for designing android UI.
- e) What is the use of Predefined Query String Constants in content providers?

**Q.2. A. Describe any two basic views available in android UI.****(02)****B. Give three points of difference between Options Menu and Context Menu.****(03)****C. How does an activity get affected when screen orientation changes? How can we avoid loss of information during such an instance?****(05)****Q.3. A. List the constructor method of SQLiteOpenHelper class along with its arguments.****(02)****B. State any three layouts available in Android UI.****(03)****C. With the help of a diagram, explain the life cycle of an android activity.****(05)****Q.4. A. What is significance of Android Runtime?****(02)****B. Name and state the use of different specialised fragments available in android UI.****(03)****C. Comment on various method of getting the location of an android device.****(05)****Q.5. A. What is Spinner View?****(02)****B. Explain use of CursorLoader in Content Provider.****(03)****C. Write a note on the use of different data storage options available in Android.****(05)****Q.6. A. State the two ways to integrate SMS capabilities in an android application?****(02)****B. Explain any three reasons to design the UI of an application using fragments.****(03)****C. Comment on five major development approaches of mobile app development.****(05)**