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**T.Y. BCA (Semester – V)**  
**EXAMINATION MAY 2023**  
**COMPUTER SCIENCE ELECTIVE -MOBILE APPLICATION DEVELOPMENT**

[Time: 2 Hours]

[Max. Marks: 60]

**Instructions:**i) Question 1-6 are compulsory  
 ii) Figures to the right indicate full marks.

- Q.1**    **A. Fill in the blanks:** **5x1=05**
- 1) \_\_\_\_\_ attribute is used to show a default text if no text is set in the TextView.
  - 2) \_\_\_\_\_ is an interface for publishing and consuming data through an URI addressing model.
  - 3) The LocationManager class provides the ability to monitor a specific location using the \_\_\_\_\_ method.
  - 4) \_\_\_\_\_ is used to display items in a two-dimensional scrolling grid.
  - 5) \_\_\_\_\_ is the default value of the android:screenOrientation attribute in the manifest file.
- B. Answer the following:** **5x1=05**
- 1) Name any two components that constitute the mobile ecosystem.
  - 2) Name any two Specialized Fragments in Android.
  - 3) Name any two content providers included in android.
  - 4) Name any two attributes of Image View.
  - 5) Name any two methods of getting location data of a mobile device.
- Q.2**    **A. List the 4 major components within an android application.** **(02)**
- B. Differentiate between Options Menu and Context Menu.** **(03)**
- C. Draw a neat labelled diagram showing different events in the lifecycle of an activity and explain any two events.** **(05)**
- Q.3**    **A. List any two states specific to fragments.** **(02)**
- B. Differentiate between View and ViewGroup and state any two common attributes used under Views and ViewGroups.** **(03)**
- C. Explain any two development approaches of mobile application Development in detail.** **(05)**

- Q.4 A. Give 1 point of difference between Geo-coding and Reverse Geo-Coding. (02)
- B. Write a code snippet to send and receive data from one activity to another using intents. (03)
- C. Comment on choosing the best storage option in android. (05)
- Q.5 A. What is an AutoComplete TextView? (02)
- B. Write a code snippet to send a SMS programmatically and list the arguments used in the function call. (03)
- C. Explain any five layouts available in Android. (05)
- Q.6 A. List the permissions required to be added in the manifest file to allow access of external storage. (02)
- B. Explain the URI query string format used to query a content provider with help of an example. (03)
- C. Explain the ways to handle a click event of a button with the help of a code snippet. (05)