

**Q.P. Code:00000194**

**[ Marks:75 ]**

**[Time:2.30 Hrs]**

- N.B:
1. All questions are compulsory.
  2. Figures to the right indicate full marks.
  3. Students answering in the regional language should refer in case of doubt to the main text of the paper in English.

- Q.1** Attempt any 4 questions: **20M**
- 1) What is Android? List Android features.
  - 2) Write short note on Dalvik Virtual Machine (DVM).
  - 3) How to create android app?
  - 4) Describe activity lifecycle with the help of diagram.
  - 5) List android layout types and its attributes.
  - 6) How to use ImageButton in Android?
- Q. 2** Attempt any 4 questions: **20M**
- 1) Explain the attributes of input control.
  - 2) Explain different types of menus of Android.
  - 3) Explain how to define and apply style?
  - 4) Explain snackbar in detail.
  - 5) Write short note on AsyncTask and AsyncTaskLoader.
  - 6) Describe service lifecycle.
- Q.3** Attempt any 4 questions: **20M**
- 1) Write short note on shared preferences.
  - 2) Explain internal storage.
  - 3) Describe external storage in detail.
  - 4) Write short note on ACID.
  - 5) How to handle data in Android?
  - 6) How to create content provider?
- Q.4** Attempt any 3 questions: **15M**
- 1) How to use Checkbox in Android?
  - 2) Define intents with its types.
  - 3) Explain the concept of prefetching.
  - 4) Explain in detail Job Scheduler.
  - 5) How to publish app?
  - 6) Write note on AdMob.