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**GF—02—2023**

**FACULTY OF SCIENCE AND TECHNOLOGY**

**B.Sc. (CS) (Sixth Semester) EXAMINATION**

**APRIL/MAY, 2023**

**(CBCS/Revised Pattern)**

**COMPUTER SCIENCE**

**Paper AF-02**

**(Mobile Application Development)**

**(Tuesday, 18-4-2023)**

**Time : 10.00 a.m. to 1.00 p.m.**

*Time—Three Hours*

*Maximum Marks—75*

*N.B. :— (i) All questions are compulsory.*

*(ii) Figures to the right indicate full marks.*

*(iii) Assume suitable data, if required.*

*(iv) Use of any electronic media such as mobile phone, digital diary and electronic calculator is not permitted.*

1. Attempt any *five* of the following (3 marks each) : 15

(a) What is Android Operating System ? Write its features and versions.

(b) Write a note on Android applications structure.

(c) Explain Activity life cycle of Android.

(d) Explain Button control.

(e) Explain Localization in Android.

(f) Write a note on Shared preferences.

(g) Explain Toast notifications in Android.

P.T.O.

2. Attempt any *three* of the following (5 marks each) : 15
- (a) Explain in detail Android Development Tools.
  - (b) Write down the Android Installation Steps.
  - (c) Write a program to display “I am Android” on AVD.
  - (d) Explain Android Development Framework.
  - (e) Explain Android Stack.
3. Attempt any *three* of the following (5 marks each) : 15
- (a) What are fragments in android ? Explain with example.
  - (b) Explain Implicit intents and Explicit intents in detail.
  - (c) Explain Time Picker View and Date Picker View.
  - (d) Explain any *two* Text Control with example.
  - (e) Explain Web View in detail.
4. Attempt any *three* of the following (5 marks each) : 15
- (a) Write a simple code for Alert dialog box.
  - (b) Explain Option menu and Context menu in detail.
  - (c) Write a note on displaying Maps.
  - (d) Write a simple code for access data from SQLite database.
  - (e) Explain List View in detail.
5. Write short notes of any *three* of the following (5 marks each) : 15
- (a) Explain any *three* Android Versions.
  - (b) How to publish android app on Android Market ?
  - (c) What is the use of Android Manifest.xml file ?
  - (d) Explain Toggle button with its attribute.
  - (e) Explain displaying Maps.