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**ND—02—2023**

**FACULTY OF SCIENCE AND TECHNOLOGY**

**B.Sc. (Third Year) (Sixth Semester) EXAMINATION**

**NOVEMBER/DECEMBER, 2023**

**(CBCS/Revised Pattern)**

**COMPUTER SCIENCE**

**Paper BCS-601**

**(Mobile Application Development)**

**(Wednesday, 29-11-2023)**

**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) Explain mobile programming.

(b) Write a short note on adding activity.

(c) Write a short note on android stack.

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- (d) Explain application context.
- (e) Write a short note on List view.
- (f) Explain alert dialog box.
- (g) Explain shared performance.
2. Attempt any *three* of the following (5 marks each) : 15
- (a) Explain the different operating system used on mobile devices.
- (b) What is Android operating system ? Explain its features and versions.
- (c) Explain basic components of android.
- (d) Explain creating application template.
- (e) Explain buttons and checkboxes with example.
3. Attempt any *three* of the following (5 marks each) : 15
- (a) Explain android application structure.
- (b) What is meant by activities ? Explain its methods.
- (c) Explain working with AndroidManifest.xml.
- (d) Explain android architecture.
- (e) Explain playing audio.
4. Attempt any *three* of the following (5 marks each) : 15
- (a) Explain intents and intents filters.
- (b) Explain activity life cycle.

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- (c) What is localization ? Explain in detail.
  - (d) Explain SQLite database.
  - (e) Explain custom dialog box in detail.
5. Write short notes on any *three* of the following (5 marks each) : 15
- (a) Context menu
  - (b) Write a short note on toggle buttons.
  - (c) Style and Themes
  - (d) Google Map
  - (e) Write a short note on content provider and remote database.

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