

22617

24225

3 Hours / 70 Marks

Seat No.

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- Instructions* – (1) All Questions are *Compulsory*.
(2) Answer each next main Question on a new page.
(3) Illustrate your answer with neat sketches wherever necessary.
(4) Figures to the right indicate full marks.
(5) Assume suitable data, if necessary.
(6) Mobile Phone, Pager and any other Electronic Communication devices are not permissible in Examination Hall.

Marks

- 1. Attempt any FIVE of the following:** **10**
- a) List any four features of android.
 - b) Define Dalvik Virtual Machine (DVM).
 - c) List various layout used in android UI design.
 - d) List components of Android UI design.
 - e) List any four attributes of check box.
 - f) Explain List View.
 - g) State syntax to display built in zoom control.

P.T.O.

- 2. Attempt any THREE of the following:** **12**
- a) Develop an android application using Table layout.
 - b) Explain how to define new service in Android.
 - c) Explain importance of Developer console in Android application development.
 - d) Explain text to speech in Android.
- 3. Attempt any THREE of the following:** **12**
- a) Draw and explain Android Architecture.
 - b) State syntax to create Text View and Image button with any two attributes of each.
 - c) Explain different types of intent with example.
 - d) Explain steps to become a Android application publisher.
- 4. Attempt any THREE of the following:** **12**
- a) Describe directory structure and its components in Android.
 - b) Explain custom toast alert.
 - c) Write a note on using SQLite database for developing application.
 - d) Write a program to capture an image using camera and display it.
 - e) Explain Android Security model.
- 5. Attempt any TWO of the following:** **12**
- a) Design student registration form using UI component.
 - b) Explain Android activity lifecycle.
 - c) Develop android application for following operations of Google map –
 - i) Display map
 - ii) Zoom and navigation
 - iii) Monitoring and getting location on map

6. Attempt any TWO of the following:**12**

- a) Write steps to install and configure android studio and SDK.
 - b) Write a note on –
 - i) Bluetooth
 - ii) Camera
 - iii) Animation
 - c) Explain SMS telephony in Android with example.
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