

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY

M. E. - SEMESTER – III • EXAMINATION – WINTER 2012

Subject code: 735301

Date: 30-12-2012

Subject Name: Advanced Programming on Mobile Devices–II (Android)

Time: 10.30 am – 01.00 pm

Total Marks: 70

Instructions:

- 1. Attempt question 1, which is compulsory and answer any four from the rest questions.**
- 2. Make suitable assumptions wherever necessary.**
- 3. Figures to the right hand indicate the marks.**

Q. No. 1

- a. Using toast, print the sine/cosine of an angle which differs by 30 degrees on screen, printing should start on click of the button. [8 Marks]
- b. Describe in detail the role of the DVM and how it works? [6 Marks]

Q. No. 2

- a. Write the advantages of using Android on phones. How is the Android's security being maintained? [7 Marks]
- b. Create a gallery of pictures on screen; the pictures should be in png format. [7 Marks]

Q. No. 3

- a. What is the significance of the Application framework in android? Describe the same. [6 Marks]
- b. Draw the flow chart to explain the flow of the various events in android. [8 Marks]

Q. No. 4

- a. What is the role of the Runtime in Android architecture explain? [6 Marks]
- b. Write a program to reverse a string entered by user on screen and print the output on screen. [8 Marks]

Q. No. 5

- a. What is the role of layouts in the Android illustrate with a simple program any one of the layouts. [7 Marks]
- b. Write a program to print the log10 of first fifty numbers on view. [7 Marks]

Q. No. 6

- a. What are the states of process in android? List the states with one line of description for each state. [7 Marks]
- b. Write a program to create a simple table in Sqlite3 and explain various steps involved in process. [7 Marks]

Q. No. 7

- a. What are the processes in Android and what is their life cycle? [6 Marks]
- b. Define the following terms: Broadcastreceiver, Others in Android, Services and Intents. [8 Marks]

Q. No. 8

- a. Explain the various architectural artifacts of the android with description of the each of the layer? [8 Marks]
- b. Write a simple program to illustrate the Service and explain the various steps. [6 Marks]
