Fifth Semester B. E. (Computer Science and Engineering) Examination

MOBILE APPLICATION PROGRAMMING

Time : 3 Hours]   [Max. Marks : 60

Instructions to Candidates :—
    (1)   Assume suitable data wherever necessary.
    (2)   All questions carry marks as indicated against them.

1. Solve any **Two** :

    (a)   What is Frequency Reuse ? Discuss the various channel allocation strategy used by the network providers.   5 (CO 1)

    (b)   Discuss the GSM system architecture.   5 (CO 1)

    (c)   Discuss the evolution of mobile generation.   5 (CO 1)

2.   (a)   Give brief description for the following user centered design process :

        (a)   Discover

        (b)   Define

        (c)   Develop   5 (CO 2)

    (b)   What is prototyping ? Discuss the methods of prototyping. Which is best suited method for developing an android application ?   5 (CO 2)

3. Solve any **Two** :

    (a)   (i)   What is Logcat ? Discuss various levels of logcat with their utility.

        (ii) What is the use of strings.xml ? Explain how to declare an array in strings.xml.   3+2 (CO 2)

(b) Demonstrate the working of progress bar. What is the role of handler in android ? 5 (CO 2)

(c) Design the following form using relative layout

Party Name	Candidate Name	Vote
ABC	Mr. C. Martin	○
BCD	Ms. A. Johnson	○
DEF	Mr. K. Wales	○
Submit		

5 (CO 2)

4. Solve any **Two** :

(a) Consider the Layout from Question 3(c), write java code for submit button. When user clicks on submit button, the next activity open and the text view displays the message "Thank You for casting the Vote to _____". The candidate name should appear in the blank space. 5 (CO 2)

(b) Demonstrate use of ArrayAdapter in Spinner control with code. 5 (CO 2)

(c) Develop an android application with options menu having colors as "Red", "Blue" and "Green". When the menu item is clicked the background color changes appropriately ? 5 (CO 2)

5. (a) Create a registration form using EditText, RadioButton and Button. Store the value in database. (Only Java Code). 7 (CO 3)

OR

(b) Consider an application for registering student information for Campus Recruitment. Write the program to store student academic details in database using content provider. 7 (CO 3)

(c) Write short note on shared preference. Why is shared preference preferred to store login information ? Discuss. 3 (CO)

6. (a) What is geocoder ? Discuss forward and reverse geocoding with example.
                                                                                    5 (CO 4)

    (b) Write a code snippet for receiving the SMS. When an SMS is received
         show the number and message in toast.   5 (CO 4)