M. Sc. (IT & CA) (Sem. II) (CBCS) Examination

April / May - 2018

CS - 07 : Application Development Using Advnced Android

Faculty Code : 003

Subject Code : 1082001

Time : $2\frac{1}{2}$ Hours]   [Total Marks : **70**

Instructions : (1) Assume suitable data whenever necessary.

(2) Figures to the right indicate full marks

1 (A) Attempt the following :   **4**

(1) What is Activity?

(2) What is the use of ArrayAdapter?

(3) What is Intent?

(4) What is Live Wallpaper?

(B) Answer in brief : (Any **One**)   **2**

(1) Explain Searchview.

(2) Explain Webview.

(C) Answer in detail : (Any **One**)   **3**

(1) Explain AlarmManager with example

(2) Write an android code to capture pictures using camera.

(D) Write a note on : (Any **One**)   **5**

(1) State importance of AndroidManifext.xml file in Android Application. Explain in detail various tags used in AndroidManifest.xml file to enforce application platform requirement

(2) Write an android code to play, record audio and video.

2 (A) Attempt the following :   **4**

    (1) What is the default path for database in android file system?

    (2) What is Cursor?

    (3) What is Shared Preference?

    (4) Which permission is required to read files from external storage?

(B) Answer in brief : (Any **One**)   **2**

    (1) Explain Notification with example.

    (2) Explain how to send and receive broadcast.

(C) Answer in detail : (Any **One**)   **3**

    (1) Explain the use of SQLiteOpenHelper with example.

    (2) What is Content Provider? List out Built in Content Providers describe one of them

(D) Attempt Any **One** :   **5**

    (1) How to create database, create table, insert a record and search a record operation using SQLiteDatabase in android application? Explain with example.

    (2) Explain how to create custom content provider.

3 (A) Attempt the following :   **4**

    (1) What is Sensor?

    (2) What is the use of Accelerometer.

    (3) What is Web Service?

    (4) What is REST?

(B) Answer in brief : (Any **One**)   **2**

    (1) Differentiate SOAP Vs REST webservice

    (2) Explain types of sensors.

(C) Answer in detail : (Any **One**)   **3**

    (1) Explain Android Restful web service with example.

    (2) Explain Sensor API with example.

(D) Attempt Any One : **5**

   (1) Explain Orientation Sensors with example.

   (2) Write an android code to demonstrate the use of WiFi.

4 (A) Attempt the following : **4**

   (1) What is XML Pull Parser?

   (2) What is JSON Parsing?

   (3) What is DOM Parsing?

   (4) What is BluetoothAdapter?

(B) Answer in brief : (Any **One**) **2**

   (1) Explain with example how to manage and monitor internet connectivity.

   (2) Explain how to integrate social networking using HTTP in android.

(C) Answer in detail : (Any **One**) **3**

   (1) Explain BluetoothAdapter class with its Constants & Methods. How to enable/disable Bluetooth programmatically?

   (2) What is XML parsing? Explain different types of XML Parsing in android.

(D) Attempt Any **One** : **5**

   (1) Explain Wifi and Bluetooth API with example.

   (2) Write an android code to demonstrate the use of JSON Parsing.

5 (A) Attempt the following : **4**

   (1) What is Property Animation?

   (2) What is Proximity?

   (3) What is Map Overlays?

   (4) What is Signing Certificate?

(B) Answer in brief : (Any **One**)   **2**

    (1) Explain Property Animation, Drawable Animation and View Animation.

    (2) Explain Canvas and Paint class. Write an android code to draw square, circle, line, text in canvas with color.

(C) Answer in detail : (Any **One**)   **3**

    (1) Explain Location Based Services with finding current location and listening for changes in location.

    (2) Explain with steps how to distribute and promote an android application on google play.

(D) Attempt Any **One** :   **5**

    (1) What is Geocoder? Explain forward Geocoding and Reverse Geocoding with android code.

    (2) Write an android code to demonstrate the use of Proximity alert.