PBB-P5020
Seat No. _____

M. C. A. (Sem. V) (CBCS) (W.I.F. 2016) Examination
November / December - 2018
Mobile Programming Language : P - 5020
(New Course)

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

1   Answer the following questions :
(a)   Attempt the following objective questions :   4
    (1)   What is intent filter?
    (2)   Write a snippet of code to open built-in browser using intent.
    (3)   List Android OS version names.
    (4)   What is AVD?

(b)   Answer in brief : (Any **One**)   2
    (1)   List and explain any two features of Android.
    (2)   Explain in brief how style and theme can be applied to an activity.

(c)   Answer in detail : (Any **One**)   3
    (1)   What is Intent? How activities can be linked using intent? Explain with example.
    (2)   What is Fragment? Explain in brief lifecycle of fragment.

(d)   Write a note on following : (Any **One**)   5
    (1)   Explain in detail various stages in lifecycle of an Activity.
    (2)   Explain in detail architecture of android.

2   Answer the following questions :
(a)   Attempt the following objective questions :   4
    (1)   What is ViewGroup?
    (2)   What is AbsoluteLayout?
    (3)   Write a code to register Button for a click event.
    (4)   Which method is used to set layout program-matically?

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

   (1) Write any two XML attributes / properties of FrameLayout.

   (2) Write any two XML attributes / properties of LinearLayout.

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

   (1) Explain ScrollView with example.

   (2) How to detect orientation changes? Explain with example.

(d) Write a note on following : (Any **One)**   **5**

   (1) Explain RelativeLayout in detail with example.

   (2) What is ActionBar? Explain creating and adding items to an ActionBar with example.

3 Answer the following questions :

(a) Attempt the following objective questions :   **4**

   (1) How to set image to ImageButton program-matically?

   (2) What is WebView?

   (3) What is ListFragment?

   (4) List any two attributes of AnalogClock.

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

   (1) What is Toggle Button? When it is useful?

   (2) What is Spinner? When it is useful?

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

   (1) Explain AutoCompleteTextView with example.

   (2) Explain creating ListView with example.

(d) Write a note on following : (Any **One**)   **5**

   (1) What is Option Menu? Explain Option Menu with example.

   (2) Explain DatePicker and TimePicker with appropriate examples.

4 Answer the following questions :

(a) Attempt the following objective questions :   **4**
   (1) What is preference with respect to Android?
   (2) Which permission is required to store data into SD card?
   (3) What will be the default name of preference file?
   (4) How DBAdapter helper class is useful for database applications?

(b) Answer in brief : (Any **One**)   **2**
   (1) Write snippet of Android code to create database.
   (2) Explain any two methods to modify preference values programmatically.

(c) Answer in detail : (Any **One**)   **3**
   (1) Write android code to store user data in a file at SD card.
   (2) Write android code to read user data from file located at internal storage of phone.

(d) Write a note on following : (Any **One**)   **5**
   (1) What is preference? Explain storing and reading data in preference with example.
   (2) Write and explain android code to perform insert, update, delete and query operation with database.

5 Answer the following questions :

(a) Attempt the following objective questions :   **4**
   (1) Specify permission required to know current location of user.
   (2) Which classes from Android library are useful to parse XML file?
   (3) Write Android code to make a phone call using intent.
   (4) What is DOM Parser?

(b) Answer in brief : (Any **One**)   **2**
   (1) What is notification in Android? Explain in brief how it can be sent programmatically.
   (2) List and explain any two methods of Location.

(c)   Answer in detail : (Any **One**)   **3**
   (1)   Explain steps to publish Android application.
   (2)   Write Android code to send message to user specified contact number.

(d)   Write a note on following : (Any **One**)   **5**
   (1)   Write android code to demonstrate parsing JSON file. [Assume suitable JSON code]
   (2)   Explain setting Alarm using Android library classes.

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