

Seat No. : _____

DE-109

December-2017

5th Year M.Sc. (CA & IT) Integrated

Internet Application

Time : 3 Hours]

[Max. Marks : 100

1. (A) Answer the following : (any **two**) **14**
 - (a) How logging support can be added to android application ? Discuss various methods of it.
 - (b) What is Android Resource ? Explain using example how to define and work with String, Colour and Boolean resources.
 - (c) Discuss AndroidManifest.xml file with code snippet and its structure.

(B) Explain Android software stack in detail. **6**

2. (A) Answer the following : (any **two**) **14**
 - (a) Explain Frame-by-Frame animation with code snippet.
 - (b) What are in-built layout classes ? List important attributes of all layout classes.
 - (c) What is the use of Dialog ? Discuss various kinds of Dialogs supported by Android.

(B) Differentiate the following : (any **two**) **6**

 - (1) View and View Group
 - (2) Style and Theme
 - (3) AutoCompleteTextView and MultiAutoCompleteTextView

3. (A) Answer the following : (any **two**) **14**
 - (a) What is Preferences ? Discuss using example how to work with the shared preferences.
 - (b) What are steps required for publishing an application ?
 - (c) What is SQLite Database ? Explain methods for creating, updating, deleting and querying database records. What is the default path for database in android file system ?

(B) Explain Life cycle of Android Activity with diagram. **6**

4. (A) Answer the following : (any **two**) **14**
- (a) What is Content Provider ? List the usefulness of it and discuss any two of it in detail.
 - (b) What is Context menu ? How is it differ from Option menu ? Explain how to create Context menu by taking suitable example.
 - (c) Explain with code how to send and receive SMS. Which are the permissions need to add for this purpose ?
- (B) Explain AsyncTask class with important methods of it in detail. **6**
5. (A) Answer the following : (any **two**) **14**
- (1) Explain multimedia feature of android.
 - (2) How GPS support is added to the application ?
 - (3) Differentiate Notification and Toast. Also explain the same with code snippet.
- (B) Write down the steps of capturing still images using Camera and also explain common camera parameters. **6**
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