OXFORD COLLEGE OF ENGINEERING AND MANAGEMENT

Level: Bachelor
Programme: BCA   Semester – Spring   Year   : 2020
Course: Mobile Application Development   Full Marks: 100
                                                     Pass Marks: 45
                        Set - B   Time   : 3hrs.

Candidates are required to give their answers in their own words as far as practicable.

The figures in the margin indicate full marks.

Attempt all the questions.

1
  a) What is Mobile Application Development? Explain types of mobile application development environments.   7

  b) Explain DVM and android runtime in detail? Describe the kernel used in Android OS.   8

2
  a) What is JVM and why is Java called a platform independent language?   7

  b) Describe the Android Manifest file. Write importance of manifest file with example.   8

3
  a) What is an Activity? Explain the activity lifecycle of android with a suitable diagram?   8

  b) Explain the permission mechanism in Android. What is the importance of Fragment in Android?   7

4
  a) What is Toast Notification and Snackbar? Write differences between them.   7

  b) Describe the AsyncTask class in android? Explain with an example.   8

5
  a) Explain types of layout in android? Write an xml file for registration screen using relative layout.   8

  b) What is multimedia? Describe the lifecycle of a media player.   7

6
  a) Describe a multitouch gesture in android? List and explain some of the events generated during multitouch.   8

  b) Write an application as follows:
     i. Create a database name "BankDB"
     ii. Create a table "Customer" which have column "name" and "contact"
     iii. Insert a row with the following details:
          (Ramesh, 992900019)

                                                          (2*5 = 10)

7   Write short notes. (any two)
    a) Content provider class.
    b) Shared Preferences
    c) Android App Monetization

OXFORD COLLEGE OF ENGINEERING AND MANAGEMENT

Level: Bachelor   Semester – Spring   Year   : 2020
Programme: BCA
Course: Mobile Application Development

Full Marks: 100
Pass Marks: 45
Time   : 3hrs.

Set - A

Candidates are required to give their answers in their own words as far as practicable.

The figures in the margin indicate full marks.

Attempt all the questions.

1 a) Explain the Mobile Operating System with its Structure.   7

    b) Define android run-time and difference between JIT and AOT.   8

2 a) What do you mean by Object and Class in Java? Explain the inheritance with its types.   8

    b) Explain Android manifest file. How is an activity set as default activity?   7

3 a) What do you mean by Intent? Explain its type with a suitable program for each.   8

    b) Explain Intent. Write a code for button click listener to switch to another activity.   7

4 a) What is View and Viewgroup in android explain with examples.   8

    b). What do you mean by Density Independent Pixel? How can you achieve multiple screen support in our Android application? Explain.   7

5 a) Explain different techniques to work with graphics in android? How do you implement a media player in an android application?   7

    b) Write an application that demonstrates how to perform operations using Asynctask on a background thread.   8

6 a) What is multimedia? Describe the life cycle of a media player.   7

    b) Explain an inbuilt database available in android and procedure to implement in an android app.   8

7 Write short notes. (any two)
    a) Android App Monetization
    b) Broadcast Receiver
    c) Debug APK vs Release APK