Code: 13A05703

R13

B.Tech IV Year I Semester (R13) Supplementary Examinations June 2017
MOBILE APPLICATION DEVELOPMENT
(Common to CSE and IT)

Time: 3 hours

Max. Marks: 70

PART – A
(Compulsory Question)
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1   Answer the following: (10 X 02 = 20 Marks)
   (a) Define profile.
   (b) What is MIDlet suite?
   (c) Describe the two important subclasses of displayable class.
   (d) Write statements to create instance of Form class and Text field class.
   (e) What is the use of paint() and repaint() methods?
   (f) What is the use of record enumeration?
   (g) How the JDBC driver is loaded.
   (h) What is the need of Intent in Android?
   (i) Describe Scroll view.
   (j) List the various view groups that can be used to design user interface.

PART – B
(Answer all five units, 5 X 10 = 50 Marks)

UNIT – I

2   (a) Describe briefly about the radio transmission and its limitations.
    (b) Write a MIDlet program to display Hello World.
OR
3   Illustrate J2ME architecture with a neat diagram.

UNIT – II

4   (a) Describe the Best Practices to keep application simple and small.
    (b) Illustrate Command Class and Command Listener.
OR
5   (a) Use of local variables is a best practice in developing J2ME application. Explain.
    (b) Write a MIDlet program displaying an alert dialog box when an exception is thrown.

UNIT – III

6   (a) Write a MIDlet program for drawing a rectangle on canvas.
    (b) What are the different methods used in clipping regions? Explain.
OR
7   (a) Give a brief note on Animations.
    (b) Write a MIDlet for writing and reading records from a record store.

UNIT – IV

8   (a) What are the different JDBC driver types? Explain.
    (b) Explain four common WHERE clause expressions that are used to update multiple rows of a table.
OR
9   With a neat diagram, explain life cycle of an activity and explain various stages it go through in its life cycle.

UNIT – V

10 (a) Give a brief note on linear layout.
    (b) Illustrate how to display long lists using list views with suitable example.
OR
11 (a) Explain about the understanding the components of the screen.
    (b) Describe briefly about the Time Picker Views.
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R13

B.Tech IV Year I Semester (R13) Regular Examinations November/December 2016
MOBILE APPLICATION DEVELOPMENT
(Common to CSE and IT)

Time: 3 hours

Max. Marks: 70

PART – A
(Compulsory Question)
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1   Answer the following: (10 X 02 = 20 Marks)
  (a) Explain any two types of J2ME profiles.
  (b) Mention the common system attributes for a JAD file in J2ME.
  (c) Explain Command Class Constructor found in J2ME.
  (d) Explain J2ME Alert Class.
  (e) Explain the layout of a Canvas as used in J2ME application.
  (f) Explain the usage of Pen in J2ME application Canvas.
  (g) What is the use of Callable Statement in a J2ME object and identify the different parameters?
  (h) Explain any four features of Android.
  (i) Explain the use of on KeyUp and on Save Instance State() methods in Android.
  (j) What is the use of Button, Edit Text, Check Box and Toggle Button widgets?

PART – B
(Answer all five units, 5 X 10 = 50 Marks)

UNIT – I

2   Explain various technologies like Wireless Technology, Radio Data Networks, Microwave Technology, Mobile Radio Networks and Messaging used in small and mobile computing devices.

OR

3   Explain J2ME architecture in detail with a neat diagram. Also, explain how individual MIDlets are packaged into MIDlet suites.

UNIT – II

4   Develop a J2ME application to create an online help routine by making use of commands.

OR

5   Write a J2ME program to demonstrate the process of creating and accessing Radio Buttons.

UNIT – III

6   Write a J2ME program to illustrate the process of capturing and processing of key codes.

OR

7   Write a J2ME program to illustrate reading and writing of records.

UNIT – IV

8   Explain the various layers that make up the Android Operating System with a neat diagram.

OR

9   Explain life cycle of an activity in Android and the various stages it goes through, from when the activity is started until it ends with a neat diagram.

UNIT – V

10   Explain the different View Groups supported by Android in detail.

OR

11   Write Android code to display Time Picker in a Dialog Window.

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