UPES

UNIVERSITY OF PETROLEUM AND ENERGY STUDIES

End Semester Examination, December 2017

Program: B.Tech - CSE-BFSI	**Semester –** VII
Subject (Course): Mobile Technology for Banking Industry	**Max. Marks** : 100
Course Code : CSIB415	**Duration** : 3 Hrs
No. of page/s: 2	

Section A is Compulsory

1   **Multiple Choice Questions**

1.1. Which one is not belonged to UI controls provided by Android?
     a) Edit Text
     b) Image
     c) Comment
     d) Timepicker

1.2. How many ways are there to define and instantiate a Drawable?
     a) 2
     b) 3
     c) 7
     d) 5

[4]   3u-Q1-3, Q4-4u

1.3. How many generalized densities are grouped by Android?
     a) 4
     b) 8
     c) 7
     d) 6

1.4. Android categorizes the screen size as
     a) Small
     b) Normal
     c) Large
     d) All the above

2   **Fill in the blanks**

2.1. Density-independent pixel represents one physical pixel on a _____.

2.2. _____releases the resources that were acquired by the MediaPlayer.

[4]   4u

2.3. _____ class is used to present live camera preview for the user on the screen.

2.4. The BroadCastReciever class extends _____.

3 **True or False**
3.1. Tween animation calculates the animation with information such as the start point of an animation. True/False
3.2. Android offers a custom 3D graphics library for drawing for drawing shape and images. True/False **[4]**
3.3. NinePatchDrawable graphic is a non stretchable bitmap image. True/False
3.4. HTTPS is supported before Android 3.1. True/False

4 **Fill in the blanks**
4.a) Android ………….. is named as Honeycomb
4.b) Android 4.0–4.0.4 is named as ………………….
4.c) Android ……….. is named as Jelly Bean **[4]**
4.d) Android 4.4+ is named as ………..

5 Define Mobile first security? **[4]**

SECTION B is Compulsory

6 Explain following terms related to Android Screen Compatibility:
Screen Density. **[10]**
Orientation
Resolution

7 What is Alert Dialog. Why it is required. Explain three regions of Alert Dialog. **[10]**

8 Explain how following code snippet helps us:
–String url= "http://........";
MediaPlayer = new MediaPlayer();
mediaPlayer.setAudioStreamType(AudioManager.STREAM_MUSIC); **[10]**
mediaPlayer.setDataSource(url);
mediaPlayer.prepare();
mediaPlayer.start();

9 Diagrammatically explain Android architecture. **[10]**

SECTION C is Compulsory

10 Why Layout managers are required. Name 5 standard Layouts. Explain and give Example for absolute layout. **[20]**

11 Explain any 5 UI controls provided by Android that allow you to create graphical user interfaces for your application. **[20]**

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Section A is Compulsory

1   **Fill in the blanks**

1.1._____method allows us to create an ArrayAdapter from the string array.

1.2._____is used to set the display style of the progress dialog.

1.3._____indicates the action that are most import and frequently performed by the user.

1.4._____ represents a stretchable bitmap image.

[4]   3u

2   **Multiple Choice Questions**

2.1.Android categorizes the screen size as
   a) Small
   b) Normal
   c) Large
   d) All the above

2.2.By which state New MediaPlayer object is created?
   a) Paused State
   b) Idle State
   c) Started State
   d) Prepared State

[4]   4u(Q1-Q3)
Q4-3U

2.3.How many types of widgets are present in Android?
   a) 7
   b) 4
   c) 5
   d) 2

2.4.Which one is not belonged to UI controls provided by Android?
   a) Edit Text
   b) Image
   c) Comment

d) Timepicker

3 **True or False**
    3.1.HTTPS is supported before Android 3.1. True/False
    3.2.LocationManager class is instantiated directly. True/False
    3.3.Shared Preference are used to store small collection of information in the form of **[4]**
       key value pair. True/False
    3.4.NinePatchDrawable graphic is a non stretchable bitmap image. True/False

4   **Fill in the blanks**
    4.a)   Android 1.5 is named as ……….
    4.b)   Android ……. is named as Donut
    4.c)   Android 2.0–2.1 is named as ………. **[4]**
    4.d)   Android …….. is named as Froyo

5   Explain mobile first analytics. **[4]**

SECTION B is Compulsory

6 Explain how following code snippet helps us:
–Uri uri= ....;
MediaPlayer = newMediaPlayer(); **[10]**
mediaPlayer.setAudioStreamType(AudioManager.STREAM_MUSIC);
mediaPlayer.setDataSource(getApplicationContext(), uri);
mediaPlayer.prepare();mediaPlayer.start();

7 Explain following terms related to Android Screen Compatibility:
Density Independent Pixel **[10]**
Configuration Qualifier

8 What is Alert Dialog. Why it is required. Explain three regions of Alert Dialog. **[10]**

9 Draw Retail mobile banking business value stack. **[10]**

SECTION C is Compulsory

10 Explain any 5 UI controls provided by Android that allow you to create graphical user **[20]**
interfaces for your application.

11 Assume we require auto complete options for the mobile brands. How We would declare **[20]**
the Layout? Write example code for Auto complete options using the array. Define an
array containing brand names of mobiles.