

Course No: MIS 3310
 Course Title: Topics in Computer Information Systems 1 (Mobile Computing)
 Date: 31/07/2013
 No. of Questions: (3)
 Time: 1hours
 Using Calculator (No)

University of Palestine

 Midterm Exam
 Summer 2012/2013
 Total Grade: 30

Instructor Name: Dr. Said Marouf
 Student No.: _____
 Student Name: _____
 College Name: _____
 Dep. / Specialist: _____
 Using Dictionary (No)

Question One: 14 Points

Specify whether the following statements are true or false:

#	Statement	T/F
1	The Android source code is open source.	
2	Android applications run within a Dalvik Virtual Machine	
3	A Java <i>List</i> allows duplicate values whereas a <i>Set</i> does not.	
4	Anonymous classes must have a clear and readable name.	
5	The <i>id</i> of a <i>Button</i> is defined within the <i>strings.xml</i> file.	
6	Android Layouts can only be created using static XML files.	
7	All density levels (ldpi, mdpi, hdpi) of a <i>drawable</i> resource must be provided within an Android application.	
8	<i>onClick</i> listeners can only be defined via anonymous classes.	
9	An <i>AlertDialog</i> and <i>Button</i> use the same type of <i>onClickListener</i> : <i>View.OnClickListener</i>	
10	<i>Log.d("database", "Invalid Table");</i> The <i>tag</i> value is "database" and the message is "Invalid table"	
11	The method <i>findViewById</i> is used to reference a <i>View</i> that is defined within an XML layout file.	
12	In a <i>HashMap</i> , a key can be mapped to multiple values.	
13	An <i>Activity</i> can directly move from a <i>destroyed</i> state to a <i>stopped</i> state	
14	The proper method for defining String values within an Android application is using the <i>strings.xml</i> file.	

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Question Two: 8 Points

Write the necessary code to perform the following:

- a) Create a *Button* programmatically.
- b) Reference a Button that is defined within an XML layout. Assume the id of the button is “doneButton”.
- c) Set an *onClickListener* for a button named “myButton”. Use the anonymous class method to do so.
- d) Print a debug log message with a tag “myTag” and a message “Hello”.

Question Three: 8 Points

Describe what the following code snippets do. *You must be specific and provide a clear answer.*

- a)

```
String myMsg = getResources().getString(R.string.welcomeMsg);
```

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b)

```
final CharSequence[] itms = {"Red", "Green"};
```

```
AlertDialog.Builder builder2 = new AlertDialog.Builder(this);  
builder2.setTitle("Pick a color")  
.setSingleChoiceItems(itms,0,new DialogInterface.OnClickListener() {  
    public void onClick(DialogInterface dialog, int which) {  
        Log.d(tag, itms[which] + "");  
    }  
});
```

c)

```
EditText email = (EditText)findViewById(R.id.editText1);  
if(android.util.Patterns.EMAIL_ADDRESS.matcher(email.getText().  
    toString()).matches()) {  
    Log.d("tag", "Passed Verification");  
}
```

End of Questions
Good Luck