

Course No: MUL 4316
 Course Title: Special Topics in
 Information Systems (Android)
 Date: 24/11/2014
 No. of Questions: (3)
 Time: 1hours
 Using Calculator (No)

University of Palestine



Midterm Exam
 2014/2015
 Total Grade: 45

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
<i>onClick</i> listeners can only be defined via anonymous classes.	
In a <i>HashMap</i> , a key can be mapped to multiple values.	
A Java <i>List</i> allows duplicate values whereas a <i>Set</i> does not.	
The Android source code is open source.	
Android applications run within a Dalvik Virtual Machine	
An <i>AlertDialog</i> and <i>Button</i> use the same type of <i>OnClickListener</i> : <i>View.OnClickListener</i>	
The proper method for defining String values within an Android application is using the <i>strings.xml</i> file.	
Anonymous classes must have a clear and readable name.	
The <i>id</i> of a <i>Button</i> is defined within the <i>strings.xml</i> file.	
The method <i>findViewById</i> is used to reference a <i>View</i> that is defined within an XML layout file.	
An Activity can directly move from a <i>destroyed</i> state to a <i>stopped</i> state	
All density levels (ldpi, mdpi, hdpi) of a <i>drawable</i> resource must be provided within an Android application.	
It is possible to create custom Toasts within Android.	
You can create multiple AVDs within eclipse.	

Question Two: 11 Points

- a) (2 Points) List 2 popular tasks that can be performed within the **onPause()** method.

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b) (7 Points) Draw a diagram that illustrates the lifecycle of an Activity. You should show the life cycle states and the appropriate call back methods.

c) (2 Points) Compare between Toasts and AlertDialogs.

Question Three: 20 Points

Write the code to perform the following:

a) (4 Points) Show the code to show a Toast with a message "One new message". The Toast should be shown for 7 seconds.

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b) (6 Points) Add an **OnClickListener** to a button named **purchaseButton** which has an **id = "pButton"** within your XML layout file. You must use the anonymous class approach to do so. When the user clicks the button you should **Log** the message "Purchased!"
Show all your code and please check your syntax.

c) (2 Points) Show how a string resource can be added to the **strings.xml** file. The string resource has a name of "**backButton**" and a value of "**Back**".

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- d) (8 Points) Create a **DialogFragment** subclass that overrides the **onCreateDialog** method. Within the **onCreateDialog** you should build and create an **AlertDialog** with the following properties: **title** = “Delete File”, **message** = “Are you sure?”, positive button “**Yes**”, negative button “**No**”.
Show all your code and please check your syntax.

End of Questions
Good Luck