

By The Name of Allah



The Islamic University of Gaza
Faculty of Engineering
Computer Department

Final Exam

Mobile Computing

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Student Name	
ID	

(Mark)

Exam Duration \ 1:30 (90 mins)

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Question 1 : Choose the Correct answer (5 marks)

- 1- It is a good practice to put xml interface files in ____ folder.
 - a- Interface
 - b- Layout
 - c- Values
 - d- Drawable
- 2- The registered-based virtual machine used to run Android applications on mobiles is
 - a- Java Virtual Machine
 - b- Google Virtual Machine
 - c- Dalvik Virtual Machine
 - d- Lunix
- 3- ____ provide a mechanism for message-passing within and between activities
 - a- Intents
 - b- Broadcast Receivers
 - c- Shared Preferences
 - d- a+c
- 4- Using ____, application components announce that they can respond to action requests from any application installed on the device.
 - a- Content Providers
 - b- Intent Filters
 - c- Broadcast receivers
 - d- All of the above.
- 5- To listen for broadcasts only when the application is running we register it using
 - a- Xml in manifest file.
 - b- Java code.
 - c- Xml in layout file
 - d- a + b
- 6- Database queries in Android are returned as __
 - a- Resultset
 - b- Dataset
 - c- Cursor
 - d- SQL table

7- In order to share our application data with other application we use __

- a- Intent
- b- Content Provider
- c- Database
- d- Manifest file

8- Considered the slowest sensor receive rate

- a- SensorManager.SENSOR_DELAY_FASTEST Specifies
- b- SensorManager.SENSOR_DELAY_GAME
- c- SensorManager.SENSOR_DELAY_UI
- d- SensorManager.SENSOR_DELAY_NORMAL

9- ____ represents the local Bluetooth device.

- a- BluetoothDevice
- b- BluetoothAdapter
- c- BluetoothServerSocket
- d- BluetoothSocket

10- You can access the WIFIManger using the getSystemService method ,passing:

- a- Context.WIFI_SERVICE
- b- Context.WIFI_MANAGER
- c- WifiManger.WIFI_STATE
- d- WIFI_STATE_CHANGED_ACTION

Fill the table with your answers

1	2	3	4	5	6	7	8	9	10

Question 2 : Answer the following questions

A- (3 marks) Assume you have two activities, the first contains a button called "go" and an EditText called "name". The second activity contains only a TextView called "result". When the button is clicked you should move to the second activity and display what's is written in the EditText on the TextView.

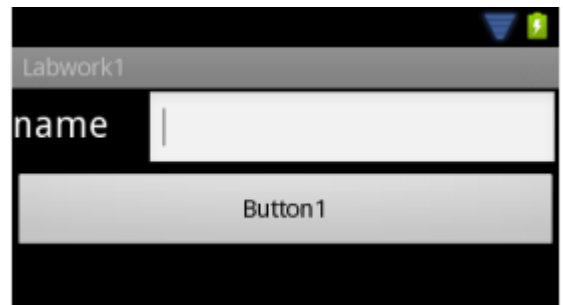
first.java

```
go.setOnClickListener(new OnClickListener() {
    public void onClick(View v) {

    }
});
```

second.java

B- (3 marks) You have the following interface, Write a complete code to show a Toast containing text from the EditText when the button is clicked. Assume any name to the xml file, EditText xml id and button xml id.



```
@Override
public void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
```

```
}
```

C- (4 marks) Write a complete code to view on a TextView the value of the Light Sensor.

```
@Override  
public void onCreate(Bundle savedInstanceState) {  
    super.onCreate(savedInstanceState);
```

```
}
```

D- (5 marks) Debug the following code:

login.java

```
public class login extends Activity {
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);

        setContentView(R.layout.main.xml);

        EditText name = (TextView) findViewById(R.id.editText1);

        Button ok = (Button) findViewById(R.id.button1);

        button1.setOnClickListener(new View.OnClickListener() {

            public void onClick(View v) {

                SharedPreferences myPref = getSharedPreferences("logShared", Activity.MODE_PRIVATE);

                SharedPreferences.Editor edit = myPref.edit();

                edit.putInt("name", name.getText().toString());

                startActivity(welcome.class);

            }

        });
    }
}
```

welcome.java

```
public class welcome {
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.welcome);

        SharedPreferences myPrefsss = getSharedPreferences("sharedLog", Activity.MODE_PRIVATE);

        Toast.makeText(this, myPrefsss.getString("myname", ""), Toast.LENGTH_LONG).show();
    }
}
```