

الإسم الرقم

أجب عن جميع الأسئلة

ورقة الإمتحان تشتمل على 6 صفحات

Question (1) (10 Marks):

For the following: place a tick (✓) for the True statement and an (X) for the False statement.

(You will get [+1] for the correct answer and[-0.5] for the wrong answer “Do not guess”):

| No | Statement | ✓ or X |
|----|--|--------|
| 1 | You can create a custom view by extending class Activity. | |
| 2 | An explicit intent is one that you use to launch a specific app component, such as a particular activity or service in your app. | |
| 3 | Flags are defined in the Intent class that function as metadata for the intent. | |
| 4 | The intent class serves as the entry point for an app’s interaction with the user, providing the window in which the app draws its UI. | |
| 5 | If you intend for your app to be self-contained and not allow other apps to activate its activities, you don't need any other intent filters. | |
| 6 | Fragments are mini-activities, each with its own set of views. | |
| 7 | onStop() fragment is no longer interacting with the user either because its activity is being paused or a fragment operation is modifying it in the activity. | |
| 8 | A foreground service performs some operation that is noticeable to the user. | |
| 9 | We can configure a content provider to allow other applications to securely access and modify your app | |
| 10 | View = hierarchy of GUI and ViewGroup objects | |

Question (2) (30 Marks):

Write the missing words for the below statements in the following table

| | | | | |
|----|----|----|----|----|
| 1 | 2 | 3 | 4 | 5 |
| | | | | |
| 6 | 7 | 8 | 9 | 10 |
| | | | | |
| 11 | 12 | 13 | 14 | 15 |
| | | | | |

1. _____ is a software platform on top of which other programs called application programs, can run on mobile devices such as PDA, cellular phones, smartphone and etc.
2. _____ is a messaging object you can use to request an action from another app component.
3. You can deliver a broadcast to other apps by passing an Intent to _____ or `sendOrderedBroadcast()`.
4. _____ specify the component to start by name (the fully-qualified class name).
5. _____ do not name a specific component, but instead declare a general action to perform, which allows a component from another app to handle it.
6. In _____ the target activity allows itself to be started by a web browser to display data referenced by a link, such as an image or an e-mail message.
7. Most apps contain multiple screens, which means they comprise multiple _____.
8. To declare your activity, open your manifest file and add an `<activity>` element as a child of the _____ element.
9. _____ is usually implemented to ensure that all of an activity's resources are released when the activity, or the process containing it, is destroyed.
10. The term _____ is a general term used to describe the concept that multiple views are combined into one compound view depending on the actual available space.
11. When a service is started, it has a lifecycle that's _____ of the component that started it.
12. _____ is a view that shows items in a vertically scrolling list.
13. _____ is a view that shows items in a center-locked, horizontally scrolling list.
14. In _____ writing (insert, update, delete) locks the database, queries can be done in parallel.
15. _____ Localization is performed through triangulation or through radio fingerprinting approach (this latter used by Android):

Question (3) (10 Marks):

Fill the following table by writing the numbers of items in B that match items in A:

| | | | | | | | | | | |
|----------|---|---|---|---|---|---|---|---|---|----|
| A | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| B | | | | | | | | | | |

| A | B |
|--|-----------------------|
| (1) A set of technologies, specifications and libraries developed for small devices like mobile phones, pagers, and personal organizers. | (1) Android |
| (2) Manages app data (usually stored in database) and data access for queries. | (2) Embedded Linux |
| (3) An embedded operating system designed for ease of use with a touchscreen-based graphical user interface. | (3) BroadcastReceiver |
| (4) An operating system for mobile devices developed by the Open Handset Alliance led by Google. | (4) J2ME platform |
| (5) A compact operating system designed for mobile devices and based on Microsoft Win32. | (5) Activity |
| (6) Long-running background “part” of app (<i>not</i> separate process or thread) | (6) iPhone OS |
| (7) An embedded computer systems such as mobile phones, Personal Digital Assistants, media players and other consumer devices | (7) Service |
| (8) A “single screen” that’s visible to user | (8) Palm OS |
| (9) Component that listens for particular Android system “events”, e.g., “found wireless device”, and responds accordingly | (9) Windows Mobile |
| (10) It is an OS based on Mach Kernel and Drawin core as Mac OS X. | (10) ContentProvider |

Question (2) (20 Marks):

- Fill the circle of the correct answer as shown in the below example. If more than one circle filled for one question; will be marked as 0.
- Example: suppose the correct answer for Q1 is (a) and for Q2 is (b), the answer sheet should look like

| | | Questions | | | | | | | | | | | | | | | | | | | |
|---------|---|----------------------------------|----------------------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |
| Answers | a | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| | b | <input type="radio"/> | <input checked="" type="radio"/> | <input type="radio"/> |
| | c | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| | d | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |

Example

Answer Sheet

| | | Questions | | | | | | | | | |
|---------|---|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| Answers | a | <input type="radio"/> |
| | b | <input type="radio"/> |
| | c | <input type="radio"/> |
| | d | <input type="radio"/> |

- What is the life cycle of foreground activity in android?
 - onCreate() -> onStart() -> onResume() -> onStop() -> onRestart
 - onCreate() -> onStart() -> onResume() ->onStop()
 - onCreate() -> onStart() -> onResume()
 - None of the above.
- What method you should override to use Android menu system?
 - onCreateOptionsMenu()
 - onCreateMenu()
 - onMenuCreated()
 - onCreateContextMenu()
- During an Activity life-cycle, what is the first callback method invoked by the system?
 - onStop()
 - onStart()
 - onCreate()
 - onRestore()
- Which configuration file holds the permission to use the internet?
 - Layout file
 - Property file
 - Java source file
 - Manifest file

5. What does the following line of code achieve?
Intent intent = new Intent(FirstActivity.this,SecondActivity.class);
- a) Creates an hidden Intent
 - b) Creates an implicit Intent
 - c) Create an explicit Intent
 - d) Starts an activity.
6. Which of the following is NOT a valid usage for Intents?
- a) Activate and Activity
 - b) Activate a Service
 - c) Activate a Broadcast receiver
 - d) Activate a SQLite DB Connection.
7. What is the name of the folder that contains the R.java file?
- a) gen
 - b) res
 - c) bin
 - d) src
8. What does the src folder contain?
- a) Image and icon files
 - b) Java source code files
 - c) The application manifest file
 - d) XML resource files
9. What is the parent class of all Activity widgets?
- a) ViewGroup
 - b) Layout
 - c) View
 - d) Widget
10. What does this code do?
Intent intent = new Intent();
intent.setAction(Intent.ACTION_VIEW);
intent.setData(android.net.Uri.parse("http://www.androidatc.com"));
startActivity(intent);
- a) Starts a sub-activity
 - b) Starts an activity using an implicit intent
 - c) Sends results to another activity.
 - d) . Starts a service

