



## EXAM QUESTIONS PAPER FOR EXAMINATION, 2020/21

<b>Module code:</b>	CS6051
<b>Module title:</b>	<b>Mobile Applications</b>
<b>Module leader:</b>	Dr Tingkai Wang

<b>Date:</b>	May 2021 Examination
<b>Day / evening:</b>	Day

<b>Duration:</b>	1.5 hours
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<b>Exam type:</b>	Unseen Exam
<b>Materials supplied:</b>	Answer book
<b>Materials permitted:</b>	None

<b>Warning:</b>	Candidates are warned that possession of unauthorised materials in an examination is a serious assessment offence.
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<b>Instructions to candidates:</b>	This exam contains 2 parts. Part 1: 20 Multiple-Choice Questions, each question carries 3 marks. <b>Candidates MUST answer all questions.</b> Part 2 contain 4 questions; <b>Candidates MUST answer all questions.</b>
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### **Part 1: Multiple Choice Questions on**

- a. **Attempt all 20 multiple-choice questions – 3 mark awarded to each question. Mark only one answer** to each question.
- b. A number of possible answers are given for each question, indicated by either a. b. c. or d. Your answers should be indicated on the Answer Book. For example, 6 B indicates that you have chosen Option b as the right answer for Question 6. **All answer must be written in the Answer Book.**
- c. For certain questions, more than one response may appear to be correct. In such cases, choose the one best response.

**1      While developing Android applications, developers can test their apps on...**

- A ) Emulator included in Android SDK
- B ) Physical Android phone
- C ) Third-party Emulators (Youwave, etc.)
- D ) All three options will work

**2      Which file is responsible for gluing everything together, explaining what the application consists of, what its main building blocks are, etc?**

- A ) Layout file
- B ) Strings XML
- C ) R file
- D ) Manifest file

**3      You can shut down an activity by calling its \_\_\_\_\_ method**

- A ) onDestory()
- B ) finishActivity()
- C ) finish()
- D ) none of the above

**4      If you want share the data across the all applications, you should go for?**

- A ) Shared Preferences
- B ) Content provider
- C ) Internal Storage
- D ) SQLite Databases

**5      What was the main reason for replacing the Java VM with the Dalvik VM when the project began?**

- A ) There was not enough memory capability
- B ) Java virtual machine was not free
- C ) Java VM was too complicated to configure
- D ) Java VM ran too slow

- 6      What is contained within the Layout xml file?
- A ) Orientations and layouts that specify what the display looks like
  - B ) The permissions required by the app
  - C ) The strings used in the app
  - D ) The code which is compiled to run the app
- 7      When an activity doesn't exist in memory it is in
- A ) Starting state
  - B ) Running state
  - C ) Loading state
  - D ) Inexistent state
- 8      An activity can be thought of as corresponding to what?
- A ) A Java project
  - B ) A Java class
  - C ) A method call
  - D ) An object field
- 9      To create an emulator, you need an AVD. What does it stand for?
- A ) Android Virtual Display
  - B ) Android Virtual Device
  - C ) Active Virtual Device
  - D ) Application Virtual Display
- 10     What is the purpose of the ContentProvider class?
- A ) To play rich media content files
  - B ) To create and publish rich media files
  - C ) To share data between Android applications
  - D ) To access the global information about an application environment
- 11     Which of the following can you use to add items to the screen menu?
- A ) Activity.onCreateOptionsMenu
  - B ) Activity.onCreate

C ) Activity.onPrepareOptionsMenu

D ) Both a&b

12 Which of the following can be used to bind data from an SQL database to a ListView in an Android application?

A ) SimpleCursor

B ) SimpleCursorAdapter

C ) SimpleAdapter

D ) SQLiteCursor

13 What does the src folder contain?

A) Image and icon files

B) XML resource files

C) The application manifest file

D) Java source code files

14 Which configuration file holds the permission to use the internet?

A) Layout file

B) Property file

C) Java source file

D) Manifest file

15 Which of the following is NOT true about the R.java file?

A) It is auto-generated during the build of the project.

B) It is used by developers to access any resource through an ID.

C) It can be modified manually to change the ID of a resource.

D) It contains resource IDs for all resources in your /res/ folder.

16 Which of these files contains text values that you can use in your application?

A) AndroidManifest.xml

B) res/Text.xml

C) res/layout/Main.xml

D) res/values/strings.xml

17 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 a service.
- C) Sends results to another activity.
- D) Starts an activity using an implicit intent.

18 Which of the following is incorrect about intents?

- A) They can be used to start an Activity.
- B) They can be used to start a service.
- C) They can be used to start database insertion.
- D) They can be used to start a dialog-themed activity.

19 Which of the following lines of code is used to pass a value to the next activity?

- A) 

```
Intent i = new Intent(this,newActivity);  
i.putExtra("test");  
startActivity(i);
```
- B) 

```
Intent i = new Intent(this,newActivity);  
i.putValue("test");  
startActivity(i);
```
- C) 

```
Intent i = new Intent(this,newActivity);  
i.putValue("value1","test");  
startActivity(i);
```
- D) 

```
Intent i = new Intent(this,newActivity);  
i.putExtra("value1","test");  
startActivity(i);
```

- 20      What Activity method you use to retrieve a reference to an Android view by using the id attribute of a resource XML?
- A)    `findViewByIdReference(int id)`
  - B)    `findViewById(int id)`
  - C)    `retrieveResourceById(int id)`
  - D)    `findViewById(String id)`

**End of Part 1**

## **Part 2 answer following questions**

**(Award marks according to level of understanding and appropriateness of description [each question Max 10 marks])**

**Question 1: What is meant by intent in android? How is it implemented?**

**Question 2: Explain Activity Lifecycle briefly. Give an example of code to Create an Activity in the activity Lifecycle.**

**Question 3: What is the difference Unbound Service, Bound Service, and Intent Service? How to use (e.g. start and stop) them?**

**Question 4: What is content provider in Android? And how is it implemented?**

**End of Part 2**

**End of Exam Questions**