

# Mid Term Exam Fall 2020

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\* Required

1. Email \*

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2. Name \*

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3. Roll number \*

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4. Section \*

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## Fill in the Blanks

5. 1. A **module** is a collection of source files and build settings that allow you to divide your project into discrete units of functionality. 1 point

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6. 2. **Hybrid** app development is a blend solution that consists of both native and web solutions.

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7. 3. HAL stands for Hardware Abstraction Layer
- \_\_\_\_\_
8. 4. Separation from neighboring widgets on screen is defined as \_\_\_\_\_
- \_\_\_\_\_
9. 5. When you define a new activity in android, Android java class is extended by AppCompatActivity
- \_\_\_\_\_
10. 6. A frame layout cannot be nested in constraint layout. True or false? \_\_\_\_\_
- \_\_\_\_\_
11. 7. ADB stands for Android debug bridge
- \_\_\_\_\_
12. 8. ScrollView is scrollable container for large data sets.
- \_\_\_\_\_

### Multiple Choice Questions

13. 1. On which basis you will choose a platform to develop an android application?

*Mark only one oval.*

- ☐ Time to market
- ☐ Type of project
- ☐ Validating an idea
- ☒ All

14. 2. Which of the following is not true about android?

*Mark only one oval.*

- ☐ Customizable for devices
- ☐ Open source
- ☐ OS based on Linux Kernal
- ☒ None

15. 3. What is contained within the manifest xml file?

*Mark only one oval.*

- ☒ Permissions the app requires
- ☐ The source code
- ☐ List of the strings used in the app
- ☐ All

16. 4. An activity can be thought of as corresponding to what?

*Mark only one oval.*

- ☐ A java project
- ☒ A java class
- ☐ A method call
- ☐ An object field

17. 5. What are the Direct subclasses of Activity?

*Mark only one oval.*

- ☐ ListActivity
- ☐ ActivityGroup
- ☐ FragmentActivity
- ☒ All

18. 6. How is a simulator different from an emulator?

*Mark only one oval.*

- ☐ Emulators are only used to play old SENS games, simulators are used for software development
- ☐ The emulator is shipped with the Android SDK and third party, simulators are not.
- ☐ The emulator can virtualize sensors and other hardware features, while the simulators cannot
- ☒ The emulator imitates the machine executing the binary code rather than simulating the behaviour of the code at a higher level

19. 7. The Emulator is identical to running a real phone EXCEPT when emulating/simulating what?

*Mark only one oval.*

- ☐ Telephony  
☐ Applications  
☒ Sensors  
☐ Emulators can emulate/simulate all aspects of a smart phone.

20. 8. What is the name of the program that converts Java byte code into Dalvik byte code?

*Mark only one oval.*

- ☐ Android Interpretive Compiler  
☐ Dalvik Converter  
☒ Dex Compiler  
☐ Mobile Interpretive Compiler

Write short answers to the following questions.

21. 1. What is .apk extension in Android?

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22. 2. Create a scenario which can be tested only on real device but not on an emulator? Also tell why it is so?

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23. 3. How can your application perform actions that are provided by another application, e.g., sending an email? Elaborate your answer with an example.

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Write Java code for the following problem.

24. Create an app with one activity - the activity has a Button and a TextView. Declare an int variable. Tapping on the button increments a counter and it's new value is displayed in the TextView.

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