

**D 40085**

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**Name.....**

**Reg. No.....**

**SIXTH SEMESTER B.Sc. DEGREE EXAMINATION, MARCH/APRIL 2018**

**(CUCBCSS—UG)**

**Computer Science**

**BCS 6B 12—ANDROID PROGRAMMING**

**Time : Three Hours**

**Maximum : 80 Marks**

**Part A**

*Answer all questions.*

*Each question carries 1 mark.*

1. Android is Open Source, True or false ?
2. What is a view in android ?
3. Which virtual machine is used by android to run application ?
4. Name the two important parts of Android SDK.
5. The mechanism to invoke android components is known as \_\_\_\_\_.
6. The first android version was released in the year \_\_\_\_\_.
7. Does developing for Android require the JRE or the JDK ?
8. What's the difference between android : gravity and android : layout\_gravity ?
9. A single action bar can control multiple activities, True or False ?
10. What two main tags are used in a preference XML file to set up headers ?

**(10 × 1 = 10 marks)**

**Part B**

*Answer all questions.*

*Each question carries 2 marks.*

11. What is an AVD ? What do you use it for ?
12. What are all the methods that can be used to write log messages, and what's different about them ?
13. What is so important about the commit () method of the Editor class ?
14. What is the connection between resource-reference syntax and allocating IDs for UI controls ?
15. What is R.java ?

**(5 × 2 = 10 marks)**

**Turn over**

**Part C**

*Answer any five questions.  
Each question carries 4 marks.*

16. What is an AVD ? What do you use it for ?
17. Explain the architecture of content providers.
18. What is the role of the Content Values class and Content Resolver class ?
19. Explain Android Software Stack.
20. What are constituent parts of intent ?
21. How does URIMatcher work, and what is it used for ?
22. What is the difference between action\_pick and action\_get\_content ?
23. How to create a linear layout with view components.

(5 × 4 = 20 marks)

**Part D**

*Answer any five questions.  
Each question carries 8 marks.*

24. Explain the fundamental components of ADT.
25. Explain the Layout Managers in Android UI development with code snippet.
26. Create an android application with a user interface containing a list view. On clicking an item in the list view, it should display that item name in the next screen.
27. How to save and load shared preferences? Explain ListPreference, CheckboxPreference, EditTextPreference.
28. What are content providers ? Explain how to query, read, update and delete data in content providers.
29. Illustrate how to establish database connectivity to an android application.
30. Explain :
  - (a) How to create menu and menu groups ?
  - (b) How to respond to menu items ?
  - (c) How to load menu through xml ?
31. Explain :
  - (a) How to create a fragments in an activity ?
  - (b) How to save the fragment state ?

(5 × 8 = 40 marks)