

SIXTH SEMESTER (CUCBCSS-UG) DEGREE EXAMINATION, MARCH 2021

Computer Science

BCS 6B 11—ANDROID PROGRAMMING

(2017 Admissions)

Time : Three Hours

Maximum : 80 Marks

Section A

Answer all questions.

Each question carries 1 mark.

1. What is Android's basic UI building blocks ?
2. What is a Fragment ?
3. Which method is called by Android when the activity is freshly created ?
4. What do you mean by Plurals ?
5. What is a Cursor ?
6. Name the Android Layout manager which allows you to dynamically change the controls in the layout ?
7. Which control in Android is typically used to display images ?
8. What callback method is used to create a context menu ?
9. What is the parent class of Fragment ?
10. Name the preference which allows you to capture raw text rather than ask the user to make a selection ?

($10 \times 1 = 10$ marks)

Section B

Answer at least four questions.

Each question carries 4 marks.

All questions can be attended.

Overall Ceiling 16.

11. Name any three android java packages included in the Android SDK with its functionality.
12. What is AVD ? Why do you use it ?

Turn over

13. Write a brief note on Grid Layout Manager.
14. What is an action bar ? Give its key visual components.
15. Write a brief note on List Preferences and Shared Preferences.

($4 \times 4 = 16$ marks)

Section C

Answer at least four questions.

Each question carries 6 marks.

All questions can be attended.

Overall Ceiling 24.

16. Name all the life-cycle methods that Android calls during the life cycle of an activity.
17. Write a short note on View, Activity, Fragment and Intent.
18. Explain Pending intent and also show how to create pending intent.
19. What is List View ? Write a Java Code for adding Items to List View.
20. Explain the Lifecycle of a Fragment.
21. Write a Code to create a Spinner from a Resource File.
22. Write a detailed note on working with Context Menus.
23. Explain the major data types supported by SQL Lite.

($4 \times 6 = 24$ marks)

Section D

Answer any two questions.

Each question carries 15 marks.

24. Write a detailed note on Android Application life cycle.
25. Write a note on the following Android resources :
 - (a) Images.
 - (b) String Arrays.
 - (c) Dimension.
 - (d) Layout.

26. Explain dialogs and Dialog Fragment in Android. Write a code to construct a dialog fragment.
27. Write note on Sub menus and Context menus in Android and also show the following :
- (a) Adding Sub menu.
 - (b) Populating a context menu.
 - (c) Responding to a context menu.
28. Write appropriate code to add and remove a book from the library and also to display the list of all books in the library.

($2 \times 15 = 30$ marks)