

PARUL UNIVERSITY
FACULTY OF IT & COMPUTER SCIENCE
MCA, Winter 2017–18 Examination

Semester: 5
Subject Code: 05201301
Subject Name: Mobile Apps Development

Date: 21/12/2017
Time: 10:30am to 1:00pm
Total Marks: 60

Instructions:

1. All questions are compulsory.
2. Figures to the right indicate full marks.
3. Make suitable assumptions wherever necessary.
4. Start new question on new page.

Q.1 Answer the followings.**A. Write short notes.****(05)**

1. What is SQLite?
2. Explain following terms: context, activity.
3. How to set application version? Explain with example.
4. Explain process of application key and key store generation in brief.
5. Explain following terms: intent, and service.

B. Multiple choice type questions/ Give the sentence true or false. (Each of 01 marks)**(10)**

1. As an Android programmer, what version of Android should you use as your minimum development target?
A. Versions 1.6 or 2.0 B. Versions 1.0 or 1.1
C. Versions 1.2 or 1.3 D. Versions 2.3 or 3.0
2. What was Google's main business motivation for supporting Android?
A. To level the playing field for mobile devices
B. To directly compete with the iPhone
C. To corner the mobile device application market for licensing purposes
D. To allow them to advertise more
3. The R.java file is a(an) _____ file.
A. Automatically Generated B. Manually Generated
C. Emulated D. None of the above
4. What does AVD stand for?
A. Android Virtual Display B. Android Virtual Device
C. Active Virtual Device D. Application Virtual Display
5. Intents
A. are messages that are sent among major building blocks
B. trigger activities to being, services to start or stop, or broadcast
C. are asynchronous
D. all of these
6. What is the use of content provider in android?
A. To send the data from an application to another application
B. To store the data in a database
C. To share the data between applications
D. None of the above.
7. Is it possible to create activity without UI in android?
A. No, it's not possible
B. Yes, it's possible
C. We can't say
D. None of the above

8. Which testing technique validates that each and every line of code is executed at least once?
 - a. Branch Coverage
 - b. Statement Coverage
 - c. Path Coverage
 - d. None of above

9. Multimedia APIs are part of _____ package.
 - a. android.multimedia
 - b. android.animation
 - c. android.media
 - d. None of above

10. _____ is used to print diagnostic information from within code.
 - a. LogCat
 - b. Console
 - c. AVD
 - d. None of above

Q.2 Answer the followings. (15)

1. Draw diagram of android activity life cycle. **02**
2. What is versioning? Explain significance of versioning. **02**
3. Write a short note on frame-by-frame animations. **02**

4. Explain features provided by debug perspective of eclipse. **03**
5. Explain automation testing using JUnit in detail. **03**

6. Write a short note on OHA. **03**

Q.3 Answer the following. (Any three) (15)

1. Explain process of stepping through code in eclipse.
2. Write a note on Layout Managers.
3. Explain life cycle of a service in detail.
4. Explain design consideration for mobile applications in detail.

Q.4 Answer the following.

- A.** Explain process of mobile application development environment in detail. **(05)**
- B.** How to define and use frame-by-frame and tweened animation? Explain with suitable example. **(10)**

OR

- B.** Explain white box and Black box processing in detail. **(10)**