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**Question Paper Code: 56802**

B.E. / B.Tech. DEGREE EXAMINATION, APRIL 2019

Sixth Semester

Computer Science and Engineering

15UIT602–MOBILE APPLICATIONS DEVELOPMENT

(Common to Information Technology)

(Regulation 2015)

Duration: Three hours

Maximum: 100 Marks

Answer ALL Questions

PART - A (5 x 1 = 5 Marks)

1. What is JNI in android? CO1- R
  - (a) Java network interface
  - (b) Java interface
  - (c) Image editable tool
  - (d) Java native interface
  
2. What is user interface? CO2- U
  - (a) Helps users to communicate using windows, icons with the computer system application system
  - (b) It converts program to machine language form
  - (c) Transmit data to remote location as packets
  - (d) none of the above
  
3. Creating a UI (User Interface) in Android requires careful use of \_\_\_\_ CO3- U
  - (a) Java and SQL
  - (b) XML and Java
  - (c) XML and C++
  - (d) Dreamweaver
  
4. The types of intents in android is/are CO4- U
  - (a) Explicit intents
  - (b) Implicit intents
  - (c) Start intents
  - (d) Both a & b
  
5. What built-in database is Android shipped with? CO5- U
  - (a) SQLite
  - (b) Apache
  - (c) MySQL
  - (d) Oracle

PART – B (5 x 3= 15 Marks)

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|-----|---|--------|
| 6.  | List the uses of mobile application.                | CO1- U |
| 7.  | What do you mean by android activities and views?   | CO2- U |
| 8.  | What are the rules of UI?                           | CO3- U |
| 9.  | Tell about Broadcast receivers.                     | CO4- U |
| 10. | Write down the procedure for database connectivity. | CO5- U |

PART – C (5 x 16= 80 Marks)

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|-----|---|--------|------|
| 11. | (a) (i) How to Setting up an Android Studio Development Environment | CO1- U | (6)  |
|     | (ii) Explain the android system architecture.                       | CO1- U | (10) |

Or

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|-----|--|--------|------|
|     | (b) Explain in detail about how to create an Android Virtual Device (AVD) in Android Studio.                     | CO1- U | (16) |
| 12. | (a) List out the various design issues that needs to be considered during the development of mobile application. | CO2- U | (16) |

Or

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|-----|--|--------|------|
|     | (b) (i) What kind of tools supported by android? Describe how to use tools in an android application development with example. | CO2- U | (12) |
|     | (ii) What are the features considered for a successful mobile application?   | CO2- U | (4)  |
| 13. | (a) (i) Explain about android Touch and Multi-touch Event Handling.  | CO3- U | (8)  |
|     | (ii) Describe the steps involved in creating an android user interface.  | CO3- U | (8)  |

Or

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|--|---|----------|------|
|  | (b) Write down the steps involved in Working with the Android Grid Layout using XML Layout Resources. | CO3- App | (16) |
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14. (a) Explain the Android Broadcast Intents, Broadcast Receivers and services with example. CO4- U (16)
- Or
- (b) Explain in detail about Persisting data using SQLite Database. CO4- U (16)
15. (a) Explain about how to connecting the App with database with neat example. CO5- U (16)
- Or
- (b) Explain the inclusion of data sharing, video playback and image capture in an application. CO5- U (16)

