

## Question Paper



### MANIPAL UNIVERSITY

#### SCHOOL OF INFORMATION SCIENCES FIRST SEMESTER MASTER OF ENGINEERING- ME (EMBEDDED AND WIRELESS TECHNOLOGY)

DEGREE EXAMINATION- NOVEMBER 2017

DATE : Friday, November 17, 2017

Time : 10:00AM - 1:00PM

**Android programming using Java [EWT 613]**

Marks: 100

Duration: 180 mins.

### A

#### Answer all the questions.

- 1) List any 5 features of Java Programming Language and describe in brief (10 marks) (10)
- 2) Explain the following (with reference to Java): (5+5 marks) (10)
  - a) Relational Operators
  - b) Bitwise Operators
- 3) a) What are the features of a typical interface? Explain with an example. (5+5 marks) (10)  
b) Differentiate an interface from an abstract class (with reference to Java).
- 4) What do you mean by exception? Briefly explain different ways of handling exceptions in Java (10)  
(10 marks)
- 5) a) What is a database transaction? Explain it with an example. (5+5 marks) (10)  
b) Explain **Connection** and **Statement** classes of java.sql package
- 6) With clear SQL syntax and example define the following terms (2.5x4 marks) (10)
  - a) CREATE TABLE
  - b) ALTER TABLE
  - c) INSERT
  - d) UPDATE
- 7) Explain the components that form the building block for any Android Application. (10 marks) (10)
- 8) With an example explain the Explicit Intent in ANDROID (10 marks) (10)
- 9) What is Broadcast Receiver? Explain the way to implement receiver class in Android application. (10)  
(10 marks)
- 10) Explain the following methods with respect to Content Provider in Android (2.5x4 marks) (10)
  - a) query()
  - b) insert()
  - c) update()
  - d) delete()

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