

# Question Paper



## MANIPAL UNIVERSITY

**SCHOOL OF INFORMATION SCIENCES (SOIS)  
SECOND SEMESTER MASTER OF ENGINEERING - ME (EMBEDDED &  
WIRELESS TECHNOLOGY)**

**DEGREE EXAMINATION - APRIL/ MAY 2017**

**Friday, 28, 2017**

**Time : 10:00 AM - 1:00 PM**

**Mobile Application Development [EWT 614]**

**Marks: 100**

**Duration: 180 mins.**

### **Answer all the questions.**

- 1) Explain nested layouts in android with an example. Explain different types of layouts in android development. (10)
- 2) Write a program to create simple notification (10)
- 3) Explain all the storage options in android. (10)
- 4) Explain with an example method, how to save files that can be shared with other apps. (10)
- 5) Explain bounded and unbounded services with examples for each. (10)
- 6) Explain with an example how do you run a service in the foreground (10)
- 7) Explain orientation management. Write program to achieve portrait and landscape orientation on a android application. (10)
- 8) Explain in detail the design philosophy of a fragment (10)
- 9) Explain the communication between a fragment and activity (10)
- 10) Write a program to display a map, using the Google Maps Android API. (10)