Question Paper

MANIPAL UNIVERSITY

SCHOOL OF INFORMATION SCIENCES
FIRST SEMESTER MASTER OF ENGINEERING - ME (COMPUTING TECHNOLOGIES AND VIRTUALIZATION)
DEGREE EXAMINATION - NOVEMBER 2017
DATE : Friday, November 17, 2017
TIME : 10:00AM - 1:00PM
Android programming using Java [VIR 619]

Marks: 100   **Duration: 180 mins.**

A

Answer all the questions.

1) a) What is object oriented programming? How is it different (10)
    from the procedure-oriented programming?   (6 marks)
    b) What do you mean by just in time (JIT)
    compilation?   (4 marks)

2) List and explain the various operators used in   (10)
    Java.   (10 marks)

3) Explain the following terms with their uses   (10)
                          (2.5 x 4 marks)

         a) super   b) static   c) finalize()   d)
    Garbage Collection

4) Define the following   (10)
         a) Abstract class
                 (3 marks)
         b) Multilevel
    Inheritance
    (2 marks)
         c) Dynamic method
    dispatch   (3
    marks)
         d) Method
    overriding
    (2 marks)

5) a) What are the difference between Checked and   (10)
    Unchecked Exceptions   (2 marks)
    b) Explain in details the different ways of handling the
    exception in Java   (8 marks)

6) Explain the basic building block components of android (10)

application.   (10 marks)

7)   With a neat diagram explain activity lifecycle of an android   (10)
application   (10 marks)

8)   What is Broadcast Receiver? Explain the way to implement   (10)
receiver class and also ways of registering in android
system.
(3+7=10 marks)

9)   a) What are Content   (10)
Providers?
 (5 marks)
b) Why does Android system need Content
Providers?   (5 marks)

10)   With neat diagram explain types of JDBC   (10)
drivers   (10 marks)

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