Question Paper

MANIPAL ACADEMY OF HIGHER EDUCATION

SCHOOL OF INFORMATION SCIENCES

FIRST SEMESTER MASTER OF ENGINEERING - ME (CLOUD COMPUTING)

Cloud Application Development with Java [CDC 607]

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

END SEMESTER DEGREE EXAMINATION NOVEMBER 2018

Answer all the questions.

1)   Explain briefly the characteristics of cloud computing   (10)

2)   What are the benefits and limitations of non-relational   (10)
databases over relational databases?

3)   Why do we say that Java works on the "Write once, Run   (10)
anywhere" principle? Explain in detail how this is achieved.

4)   Define and explain the difference between method   (10)
overloading and method overriding with suitable examples
in java

5)   Explain the following with their uses (with reference to   (10)
Java)   (2.5 x 4)
protected   b) static   c) final and finalize()   d)
Garbage Collection

6)   a) Explain Java Streams.   (10)
                                                          (3)
b) Discuss at least four methods available in File class, with
an example   (4)
c) Discuss predefined
streams
                (3)

7)   Describe briefly the four different types of communication   (10)
models used in IoT system   (2.5 x
4)

8)   a) Explain briefly HTTP Request methods and Response   (10)
codes   (5)
b) List out the key steps involved in developing the Restful

web services using Java   (5)

9)   Compare the functioning of REST with Web socket.   (10)

10)   Write a note on QoS provided by MQTT protocol and   (10)
        significance of Brokers in MQTT

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