Reg. No. : ☐☐☐☐☐☐☐☐☐☐☐☐☐

Question Paper Code : 17586

M.E./M.Tech. DEGREE EXAMINATION, NOVEMBER/DECEMBER 2016.

Second Semester

Biometrics and Cyber Security

IF 7202 — CLOUD COMPUTING

(Common to M.E. Computer Science and Engineering/M.E. Mobile and Pervasive Computing/M.E. Multimedia Technology/M.E. Software Engineering and M.Tech. Information Technology)

(Regulations 2013)

Time : Three hours   Maximum : 100 marks

Answer ALL questions.

PART A — (10 × 2 = 20 marks)

1. Give the NIST definition of cloud.

2. Define the role of cloud carrier.

3. Write the steps for live VM migration?

4. List the side effects of server virtualization.

5. What is event - driven resource provisioning?

6. List out the stack of six layers of cloud services.

7. What is the use of Cloud Watch in Amazon EC2?

8. What is SQLAzure?

9. What is password assurance testing?

10. What is cloud forensics?

PART B — (5 × 13 = 65 marks)

11. (a) Explain GPU programming model in detail.

Or

(b) Explain the NIST cloud computing reference architecture.

12. (a) Discuss about the different levels of virtualization implementation.

Or

(b) List and describe the different tool support for virtualization.

13. (a) Discuss on market–oriented cloud architecture.

Or

(b) Explain the six open challenges in cloud architecture development.

14. (a) Explain about Twister - programming paradigm for repeated MapReduce executions.

Or

(b) Explain the architecture and components of Aneka platform.

15. (a) Write notes on

(i) Secure Software Development Life Cycle   (8)

(ii) Risk Assessment.   (5)

Or

(b) Explain the cloud security architecture in detail.

PART C – (1 × 15 = 15 marks)

16. (a) Compare and contrast the different file systems used in cloud environments – HDFS, GFS and Amazon S3.

Or

(b) Narrate on how to set up a private cloud for an academic university using any one of the cloud environments.

———————————