Reg. No.

Question Paper Code : 86642

M.E./M.Tech. DEGREE EXAMINATION, MAY/JUNE 2016

Elective

Software Engineering

IF 7202 – CLOUD COMPUTING

(Common to M.E. Biometrics and Cyber Security / M.E. Computer Science and Engineering / M.E. Mobile and Pasvarine Comp ability/M.E. Multimedia Technology/M.Tech. Information Technology)

(Regulations 2013)

Time : Three Hours   Maximum : 100 Marks

Answer ALL questions.

PART – A (10 × 2 = 20 Marks)

1.   List the characteristics of cloud computing ?

2.   What is GPU ?

3.   Define Virtual Machine Monitor ?

4.   Why OS level virtualization required ?

5.   What is cloud data lock-in ?

6.   What are the different storage services in cloud ?

7.   What is meant by NOSQL ?

8.   Define simple storage service (S3) ?

9.   What is Business Continuity plan ?

10.   What is Data governance ?

PART – B (5 × 13 = 65 Marks)

11. (a) Explain the primitive operations in Virtual Machines.

    OR

    (b) Discuss the service models in cloud.

12. (a) Describe about Physical versus Virtual Clusters.

    OR

    (b) Explain about memory virtualization.

13. (a) Explain on layered architectural development of the cloud platform.

    OR

    (b) Discuss the three cases of static resource provisioning methods.

14. (a) Explain the components in running a job in Hadoop.

    OR

    (b) Discuss on data mutation sequence in GFS.

15. (a) Explain the security challenges in cloud computing in detail.

    OR

    (b) Write notes on :

        (i)   Application security

        (ii)   Virtual Machine security

        (iii) Identity Access management   **(5 + 4 + 4)**

PART – B (5 × 16 = 80 Marks)

(Application/Design/Analysis/Evaluation/Creativity/Case Study)

16. (a) Compare and contrast the features of the cloud environments - Eucalyptus, Open stack and Open nebula.

    OR

    (b) Briefly explain each of the following cloud computing services. Identify two cloud providers by company name in each service category.

        (i)   Application cloud services

        (ii)   Platform cloud services

        (iii) Compute and storage services

        (iv) Network cloud services

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