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P.E.S. College of Engineering, Mandya - 571 401

(An Autonomous Institution affiliated to VTU, Belgaum)

First Semester, M. Tech - Computer Science and Engineering (MCSE)

Semester End Examination; Jan/Feb - 2016

Cloud Computing

Time: 3 hrs *Max. Marks: 100*

***Note**: Answer **FIVE** full questions, selecting **ONE** full question from each **unit**.*

UNIT - I

1 a. Explain the Benefits and Limitations of cloud computing. 10

b. Define cloud. With neat diagram explain the components of cloud computing solution. 10

2 a. List and explain the cloud services with examples for each. 10

b. Which cloud service is offered by Sales force.com and why is it good for Business? Explain the best way to move to the cloud for a company. 10

UNIT - II

3 a. List the different levels of connectivity needed for cloud to deliver its best resources. Explain any two levels with examples. 10

b. Describe the Design requirements and Design Principles of Amazon Simple Storage Service (S3). 10

4 a. What are the features provided by the Quick Books Online to Small Business Owners? 5

b. List any five features of Bungee Connect Web Application Development and Hasting Platform. 5

c. What are the Services a customer using Skytap can access? 5

d. Explain the Skytap Migration API with a neat diagram. 5

UNIT - III

5 a. Define Meta Computer. Explain the different components of Meta - Computer. 10

b. List and explain the requirements of a Grid enabled database. 10

6 a. List the standards of Grid computing. Explain the Legion Middle ware Project and NSF Middle Wave Initiative. 10

b. Explain the GTA (Globus Tool Kit 4) Architecture along with the importance features of GT4 functionality. 10

UNIT - IV

7 a. Define Cluster. Explain the Basic Architecture of Cluster along with the functionalities that a cluster can offer. 10

b. Explain the design considerations for the front end of a cluster. 6

c. Write short notes on Meta clusters. 4

Contd….2

8 a. List and explain the classification of cluster programming environment and tools. 10

b. Explain the Solaris mc and HPVM Project architecture with neat diagrams. 10

UNIT-V

9 a. List and explain the configurations for high availability in cluster architecture. 10

b. Explain the performance measures and metrics of a cluster. 10

10 a. Explain the functions of a typical Job Management System (JMS). 10

b. Explain the different strategies for Load Balancing in a Network of Workstations Cluster. 10

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