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

(An Autonomous Institution affiliated to VTU, Belgaum)

**Eighth Semester, B.E. - Computer Science and Engineering**

**Semester End Examination; June/July - 2015**

**Cloud Computing**

*Time: 3 hrs*

*Max. Marks: 100*

**Note:** Answer any *FIVE* full questions, selecting at least *TWO* full questions from *each part*.

### PART - A

1. a. What is clustering model? 2
- b. Explain briefly the issues in migration from clustering model to grid model. 8
- c. Explain briefly the evolution of parallel processing. 10
- 2 a. Explain with an example, how communication is used as a service. 6
- b. Describe how software can be used as service model. 8
- c. What are the key characteristics of SaaS? 6
- 3 a. Explain briefly the basic approach to a Data center based SDA. 12
- b. Describe briefly dispatches based load balancing cluster. 8
- 4 a. Explain n-tier architecture used in cloud environment and its importance. 10
- b. Describe the content of adding guest operating system to virtual based system with an example. 10

### PART – B

- 5 a. Describe briefly the four levels of federation. 10
- b. Explain with relevant examples, the basics for protecting data privacy in virtual Environment. 10
- 6 a. Briefly explain the secure software development life cycle. 8
- b. Write a note on:
  - (i) Application security 12
  - (ii) Virtual Machine Security
  - (iii) Identity Access Management (IAM).
- 7 a. Describe any two messaging standards. 10
- b. Write a note on: 10
  - (i) XML
  - (ii) JSON.
- 8 a. Explain the interface of youtube API in detail. 10
- b. Write a note on any two of the following : 10
  - (i) VH ware
  - (ii) Identity as a service
  - (iii) Data Governance