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**P.E.S. College of Engineering, Mandya - 571 401***(An Autonomous Institution affiliated to VTU, Belgaum)***Third Semester, M. Tech. - Computer Engineering (MCEN)****Semester End Examination; Dec - 2016/Jan - 2017****Cloud Security***Time: 3 hrs**Max. Marks: 100**Note: Answer FIVE full questions, selecting ONE full question from each unit.***UNIT - I**

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|------|--|----|
| 1 a. | What is cloud computing and explain SPI framework for cloud computing.                   | 10 |
|      | b. List the different types of cloud deployment model. Describe the importance of each.  | 10 |
| 2 a. | List and explain reasons to move operations towards cloud computing.                     | 4  |
|      | b. Discuss the impact of cloud computing on different type of users.                     | 6  |
|      | c. Explain the significant barrier for adaptation by the enterprises.                    | 6  |
|      | d. What is the impact of cloud computing on the governance structure of IT organization? | 4  |

**UNIT - II**

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|------|---|---|
| 3 a. | Write a note on the following with respect to data security :   | 7 |
|      | i) Data-in-transit (Aspect of Data Security)      ii) Data at rest.   |   |
|      | b. What is confidentiality? How confidentiality can be provided?  | 6 |
|      | c. Discuss the threats to availability and importance of integrity.   | 7 |
| 4 a. | Why Identity and Access management is needed? Discuss its challenges.   | 6 |
|      | b. Explain IAM Architecture.  | 8 |
|      | c. Differentiate between various IAM protocols and standards that are oriented towards consumer cloud services. | 6 |

**UNIT - III**

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|------|---|----|
| 5 a. | List the relevant processes to focus for security management in the cloud and explain availability management in detail.        | 10 |
|      | b. Explain the purpose of Access control of IaaS and list its models.   | 8  |
|      | c. Explain in brief about security vulnerability management.  | 2  |
| 6 a. | What is privacy and illustrate how data be managed from the time the information is conceived through to its final disposition. | 10 |
|      | b. List the key privacy concess in the cloud and who is responsible for protecting privacy.                                     | 10 |

**UNIT - IV**

- 7 a. Why GRC (Government Risk and Compliance) has been adopted? Discuss its key components with GRC implementation. 10
- b. How key management plays an important role in providing security and how key can be managed with control objectives? 10
- 8 a. Discuss Microsoft Azure Service platform in detail. 10
- b. What are the changes to implement privacy risk management? Discuss compliance in relation to cloud computing. 10

**UNIT - V**

- 9 a. With a neat sketch and describe SaaS Web content filtering and IDaaS Model. 10
- b. List the governance factors to consider when using cloud computing. 6
- c. List the potential threats of using CSP. 4
- 10 a. Why cloud computing will be popular with business units? Discuss. 10
- b. Write short notes on : 10
  - i) Vulnerability management
  - ii) ITL management process and functions.

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