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P.E.S. College of Engineering, Mandya - 571 401
(An Autonomous Institution affiliated to VTU, Belagavi)
Seventh Semester, B.E. - Information Science and Engineering
Semester End Examination; Jan. / Feb. - 2021
Cloud Computing

Time: 3 hrs

Max. Marks: 100

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

UNIT - I

- 1 a. Define cloud computing. List and explain the three cloud computing delivery models. 10
 b. List and briefly explain the ethical issues in cloud computing. 5
 c. Write a note on cloud vulnerabilities. 5
- 2 a. Explain cloud computing at Amazon. 10
 b. Explain Microsoft windows Azure and online services. 10

UNIT - II

- 3 a. Explain architectural styles for cloud application. 10
 b. Explain Zookeeper state machine model. 10
- 4 a. Explain Grep the web application. 10
 b. Explain cloud computing for Biology research. 10

UNIT - III

- 5 a. Write a note on, 10
 i) Virtual Machine Monitors (VMM) ii) Virtual Machine
- b. Compare Full virtualization and Para virtualization. 10
- 6 a. Explain optimization of network virtualization in Xen 2.0. 10
 b. Write a note on, 10
 i) The darker side of virtualization ii) Software fault isolation

UNIT - IV

- 7 a. List and explain the cloud resource management policies groups. 10
 b. Discuss stability of two-level resource allocation architecture. 10

UNIT - V

- 8 a. Discuss a utility based model for cloud based web services. 10
 b. Write a note on, 10
 i) Fair Queuing ii) Start time fair Queuing
- 9 a. Explain operating system security. 10
 b. Discuss security of virtualization. 10
- 10 a. Write a note on; 10
 i) Security risks posted by shared images ii) Security risks posted by a management
- b. Explain the security rules for application and transport layer protocol in EC2. 10