

R17

Code No: 5458AP

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

M.Tech II Semester Examinations, June/July - 2019
DISTRIBUTED SYSTEMS AND CLOUD COMPUTING
(Computer Science and Engineering)

Max.Marks:75

Time: 3hrs

Note: This question paper contains two parts A and B. Part A is compulsory which carries 25 marks. Answer all questions in Part A. Part B consists of 5 Units. Answer any one full question from each unit. Each question carries 10 marks and may have a, b, c as sub questions.

PART - A

5 × 5 Marks = 25

- 1 a) Discuss Parallel and Distributed programming models. ✓ [5]
- b) Explain desired features of a cloud. ✓ [5]
- c) List and explain Reservation with VMs. ✓ [5]
- d) Describe about SLA management in cloud computing. ✓ [5]
- e) Write about Service Transition. ✓ [5]

PART - B

5 × 10 Marks = 50

- 2. Explain with neat diagram, Virtual machines and Virtualization middleware. [10]
- OR** [10]
- 3. Write about Performance, Security and Energy efficiency. ✓ [10]
- 4. Briefly explain about The Seven-Step model of migration into a cloud. ✓ [10]
- OR** [10]
- 5. Describe Cloud infrastructure management with features. [10]
- 6. List and explain Virtual machine migration services with diagram. [10]
- 7. Write about Work flow engine for clouds. ✓ [10]
- OR** [10]
- 8.a) Explain technical benefits of cloud computing. [5+5]
- b) Discuss about resource cloud mashups. ✓ [5+5]
- OR** [10]
- 9. List and explain the basic principles of cloud computing. [10]
- 10. Discuss about Drivers for challenges: A framework to comprehend the competitive environment. [10]
- OR** [10]
- 11.a) Explain Cloud service life cycle with neat diagram. [5+5]
- b) Write about Service strategy. ✓ [5+5]