

**Code No: 126EV****JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD****B. Tech III Year II Semester Examinations, May - 2017****CLOUD COMPUTING****(Information Technology)****Time: 3 hours****Max. Marks: 75****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****(25 Marks)**

- 1.a) Give a note on Virtual machines. [2]
- b) Write about middleware support for virtualization. [3]
- c) How does cloud computing provide on demand functionality? [2]
- d) List out the characteristics of cloud computing. [3]
- e) Define on demand service. [2]
- f) Describe about the public cloud infrastructure services. [3]
- g) Give a brief note on elasticity. [2]
- h) Write a short note on AWS cloud. [3]
- i) List out the weakness of information cards. [2]
- j) Distinguish direct versus indirect distribution. [3]

**PART - B****(50 Marks)**

- 2.a) Discuss the distributed system models and enabling technologies.
  - b) Explain the system models and distributed cloud computing. [5+5]
- OR**
- 3.a) List and explain the design principles of computer clusters.
  - b) Describe the MPP architectures. [5+5]
4. Explain the architecture and design of compute and storage clouds. [10]
- OR**
- 5.a) Why is cloud called as eco system? Justify your answer.
  - b) "SOA a step forward cloud computing". Justify. [5+5]
6. What is ANEKA cloud platform? Explain it with a neat sketch. [10]
- OR**
7. Explain the technologies for data security in cloud computing. [10]
  8. Draw a neat sketch and explain automated policy based management. [10]
- OR**
9. Briefly explain the HPC systems and HPC on clouds. [10]
  - 10.a) Explain the digital identity and data security.
  - b) List and explain the data privacy and security issues. [5+5]
11. Explain the common change management models. [10]