

**PARUL UNIVERSITY**  
**FACULTY OF ENGINEERING & TECHNOLOGY**  
**M.Tech. Summer 2017 - 18 Examination**

**Semester: 2**  
**Subject Code: 03205151**  
**Subject Name: Cloud Computing and Applications**

**Date: 23/05/2018**  
**Time: 2.00 pm to 4.30 pm**  
**Total Marks: 60**

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**Instructions:**

1. All questions are compulsory.
2. Figures to the right indicate full marks.
3. Make suitable assumptions wherever necessary.
4. Start new question on new page.

- Q.1** A) What is Cloud Computing? Explain different services provided by cloud with example. (05)  
B) What are the certain issues in Cloud computing? (05)  
C) What is hypervisor? Explain different types of hypervisor in detail along with suitable figure? (05)
- Q.2** Answer the following questions. (Attempt any three) (Each five mark) (15)  
A) Explain the architecture of virtual machine manager?  
B) Explain Security risk posed by Management Operating System  
C) List out different types of cloud? Explain any one in detail along with advantages and disadvantages?  
D) Explain the components of 1) Eucalyptus 2) Amazon EC2
- Q.3** A) What is distributed computing? What are the features of distributed computing? (07)  
B) Explain Green cloud architecture in detail (08)
- OR**
- B) What is Virtual Machine? What are the advantages of Virtual Machine? Explain VM life cycle in detail? (08)
- Q.4** A) What is VM migration? Explain Seven Step model for VM migration? (07)
- OR**
- A) Explain scheduling techniques for advance reservation of capacity? (07)  
B) What is parallel processing? Explain SIMD and MISD architecture in detail? (08)