

**GUJARAT TECHNOLOGICAL UNIVERSITY**  
**BE - SEMESTER-VII - EXAMINATION - WINTER-2014**

**Subject Code: 173202****Date: 27/11/2014****Subject Name: Advance Computing****Time: 10:30am TO 01:00 pm****Total Marks: 70****Instructions:**

1. Attempt all questions.
2. Make suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.

- Q.1** (a) What is Distributed System? Explain the Advantage and disadvantages of distributed system. **07**  
(b) What is Cloud Computing? Explain the various types of Cloud computing. **07**
- Q.2** (a) Explain pros and cons of cloud computing **07**  
(b) Define a spread spectrum. What are the various ways of implementing it? **07**
- OR**
- (b) What is meaning of memory latency? How memory latency can be improved by cache? **07**
- Q.3** (a) List the different types of transparency associated with a Distributed system. Explain each detail. **07**  
(b) Explain Pipelining and Superscalar execution with suitable example **07**
- OR**
- Q.3** (a) Discuss briefly the various issues related to Distributed operating system. **07**  
(b) Explain various parallel computer architecture in detail. **07**
- Q.4** (a) Discuss the various application of Grid. **07**  
(b) Explain Berkeley Now Cluster in detail. **07**
- OR**
- Q.4** (a) Explain in detail Grid computing architecture with diagram and components in detail. **07**  
(b) Explain I-Way project in detail. **07**
- Q.5** (a) Explain Cluster classification in detail. **07**  
(b) What is Cluster middleware? Explain design goal of middleware in Cluster computing. **07**
- OR**
- Q.5** (a) Compare traditional and cloud data center on cost factor. **07**  
(b) What is significance of Paas? Explain the role of Google's App engine platform in Paas. **07**

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