

Seat No.: _____
No. _____

Enrolment

GUJARAT TECHNOLOGICAL UNIVERSITY
BE - SEMESTER-VII(OLD) • EXAMINATION – WINTER 2016

Subject Code: 170704

Date: 25/11/2016

Subject Name: Advance Computing Technology

Time: 10:30 AM 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.

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|------------|------------|--|-----------|
| Q.1 | (a) | Explain Single System Image in Cluster Computing? | 07 |
| | (b) | Explain High Availability Cluster and Load-balancing Cluster. | 07 |
| Q.2 | (a) | Explain key characteristics of Scalable Parallel computers in cluster computing. | 07 |
| | (b) | Explain Software as a Service in Cloud Computing. | 07 |
| | | OR | |
| | (b) | Explain Infrastructure as a Service in Cloud Computing. | 07 |
| Q.3 | (a) | Discuss the cloud risks factors. | 07 |
| | (b) | Explain the Cloud Computing architecture with diagram. | 07 |
| | | OR | |
| Q.3 | (a) | What are the elementary steps must be taken before migrating application into cloud? | 07 |
| | (b) | What are the requirements of Cloud Data Center? | 07 |
| Q.4 | (a) | Write Short Note : Applications of Grid Computing | 07 |
| | (b) | Explain Cross Site Trust Management in Grid Computing. | 07 |
| | | OR | |
| Q.4 | (a) | Explain layers of Grid Architecture. | 07 |
| | (b) | Explain limitations of Grid computing. | 07 |
| Q.5 | (a) | Define Grid Computing. Explain building block in grid computing. | 07 |
| | (b) | Explain Cluster Classification in detail. | 07 |
| | | OR | |
| Q.5 | (a) | Explain Resource Management and Scheduling in Cluster Computing. | 07 |
| | (b) | Explain Types of Cloud with proper example. | 07 |
