

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER-VII (OLD) EXAMINATION – SUMMER 2019

Subject Code: 170704

Date: 27/05/2019

Subject Name: Advance Computing Technology

Time: 02:30 PM TO 05:00 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)** Explain Single System Image in Cluster Computing? **07**
(b) Explain the Beowulf cluster and Berkeley Now Clusters. **07**
- Q.2 (a)** What is RMS? Explain services provided by RMS environment. **07**
(b) Explain the limitation of cloud computing. **07**
- OR**
- (b)** Discuss the cloud risks factors. **07**
- Q.3 (a)** Define grid computing and explain the various building blocks of the Grid. **07**
(b) Explain in detail about cloud work load. **07**
- OR**
- Q.3 (a)** Explain the cloud deployment model in detail. **07**
(b) What are the requirements of Cloud Data Center? **07**
- Q.4 (a)** Explain service oriented model of third generation of grid in brief. **07**
(b) Explain the Fabric layer and the connectivity layer of grid architecture. **07**
- OR**
- Q.4 (a)** Discuss Amazon EC2 in detail. **07**
(b) Explain InterGrid Protocol. **07**
- Q.5 (a)** Explain Cross Site Trust Management in Grid Computing. **07**
(b) Compare traditional and cloud data center in brief. **07**
- OR**
- Q.5 (a)** Discuss about Cluster of SMPs. **07**
(b) Differentiate public cloud and private cloud. **07**
