

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**
