

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER-VII (OLD) - EXAMINATION – SUMMER 2017

Subject Code: 170704

Date: 06/05/2017

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) Write Short Note on Cluster Computing Architecture. **07**
(b) Explain Resource Management and Scheduling in Cluster Computing. **07**
- Q.2** (a) Explain various commodity components of cluster. **07**
(b) Explain the limitation of cloud computing. **07**
OR
(b) Explain Platform as a Service in Cloud Computing. **07**
- Q.3** (a) Describe the features of cloud computing. **07**
(b) Explain the cost factors in cloud data center. **07**
OR
- Q.3** (a) Discuss security points with respect to Data Location on the cloud and Transfer of data in cloud. **07**
(b) Write short note on Cloud Workload Management **07**
- Q.4** (a) Write Short Note : Third Generation of Grid Computing **07**
(b) Explain the Fabric layer and the connectivity layer of grid architecture. **07**
OR
- Q.4** (a) Explain InterGrid Protocol. **07**
(b) Explain how grid computing is related with other technology. **07**
- Q.5** (a) Explain building block in grid computing. **07**
(b) How security aspects are observed in cluster computing? Explain in detail. **07**
OR
- Q.5** (a) Write Short Note : Programming tools of Cluster **07**
(b) Differentiate public cloud and private cloud. **07**
