

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY

BE- VIIth SEMESTER-EXAMINATION – MAY/JUNE- 2012

Subject code: 170704

Date: 28/05/2012

Subject Name: Advance computing Technology

Time: 02:30 pm – 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) Define cluster computing and explain its components with an architecture diagram in detail? **07**
(b) Explain the scalable parallel computer architecture in detail **07**
- Q.2** (a) Explain in detail the various steps involved in establishing a cluster **07**
(b) Explain the flexible load sharing algorithm in detail **07**
OR
(b) Explain Cluster Tuning **07**
- Q.3** (a) Define grid computing and explain the various building blocks of the grid. **07**
(b) Discuss the various applications of grid **07**
OR
Q.3 (a) Discuss in detail the history of grid computing. **07**
(b) Explain in detail the role of virtual organization in grid computing. **07**
- Q.4** (a) Discuss in detail implementing production grids. **07**
(b) Explain in detail the role of inter grid protocols. **07**
OR
Q.4 (a) Define cloud computing and explain its features in detail. **07**
(b) Discuss about workload in cloud. **07**
- Q.5** (a) Compare traditional and cloud data center on cost factor. **07**
(b) Explain the various types of cloud computing. **07**
OR
Q.5 (a) Discuss about the various players of cloud computing **07**
(b) Explain IaaS technology in cloud computing with a real time example. **07**
