

GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER-VII EXAMINATION – SUMMER 2016

Subject Code:170704

Date:18/05/2016

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) Define Cluster Computing. Explain its architecture 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) Define Grid Computing. Explain its applications in detail. **07**
- Q.3** (a) Explain important role of cluster middleware. **07**
(b) Explain in detail about cloud work load. **07**
- OR**
- Q.3** (a) Explain important role of grid middleware. **07**
(b) Explain in detail the role of virtual organization in grid computing. **07**
- Q.4** (a) Define cloud computing and explain its features in detail. **07**
(b) Explain I-WAY project in detail. **07**
- OR**
- Q.4** (a) Explain in detail IAAS and PAAS. Also show difference between them. **07**
(b) Explain model of SAAS in detail. **07**
- Q.5** (a) Explain important characteristics of cloud data center. **07**
(b) Discuss about Cluster of SMPS. **07**
- OR**
- Q.5** (a) Compare traditional and cloud data center on cost factor. **07**
(b) Explain the service oriented model of third generation of grid in detail. **07**
