

GUJARAT TECHNOLOGICAL UNIVERSITY**B. E. - SEMESTER – VII • EXAMINATION – WINTER 2012****Subject code: 173202****Date: 27/12/2012****Subject Name: Advance Computing****Time: 10.30 am - 01.00 pm****Total Marks: 70****Instructions:**

1. Attempt any five questions.
2. Make suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.

- Q.1** (a) Explain with proper example the Flynn's Classification of the Multi Processor architecture? **07**
(b) What are the various types of the Transparencies associated with a DS? **07**
- Q.2** (a) Define Spread Spectrum. What are the various ways of implementing it? **07**
(b) Define Cluster. Explain the FLS algorithm in detail. **07**
- OR**
- (b) List out the Categories in which Clusters are Classified. Explain any three in detail. **07**
- Q.3** (a) Explain in Detail the FAFNER project. **07**
(b) Explain in Detail the I-WAY project. **07**
- OR**
- Q.3** (a) Define grid computing and Write a Short note on various generations of Grid. **07**
(b) Draw and Explain Layers of Grid Architecture in detail. **07**
- Q.4** (a) Give Comparison of Traditional and Cloud Data Centers. **07**
(b) Enlist the Cloud Models. Explain anyone in detail with example. **07**
- OR**
- Q.4** (a) What is PaaS? Explain in Detail with Example. **07**
(b) Define the following terms: **07**
a) Hypervisor.
b) Para Virtualization.
c) Full Virtualization.
d) Provisioning.
e) Utility Computing.
f) Multi-tenancy.
g) Latency.
- Q.5** (a) What is Cluster Middleware? Describe Middleware Design Goals. **07**
(b) Explain Berkeley NOW cluster project in detail. **07**
- OR**
- Q.5** (a) Explain Cloud Work Load in Detail. **07**
(b) Define and Explain Public, Private and Hybrid clouds. **07**
