Seat No.:	Enrolment No.
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Subject code: 173202

## GUJARAT TECHNOLOGICAL UNIVERSITY

## B. E. - SEMESTER - VII • EXAMINATION - WINTER 2012

Date: 27/12/2012

•		Name: Advance Computing .30 am - 01.00 pm Total Marks	: 70
Instr	1. 2.	Ons: Attempt any five questions. Make suitable assumptions wherever necessary. Figures to the right indicate full marks.	
Q.1	(a) (b)	Explain with proper example the Flynn's Classification of the Multi Processor architecture? What are the various types of the Transparencies associated with a DS?	07 07
Q.2	(a) (b)	Define Spread Spectrum. What are the various ways of implementing it?  Define Cluster. Explain the FLS algorithm in detail.	07 07
	<b>(b)</b>	OR List out the Categories in which Clusters are Classified. Explain any three in detail.	07
Q.3	(a) (b)	Explain in Detail the FAFNER project. Explain in Detail the I-WAY project.  OR	07 07
Q.3	(a) (b)	Define grid computing and Write a Short note on various generations of Grid.  Draw and Explain Layers of Grid Architecture in detail.	07 07
Q.4	(a) (b)	Give Comparison of Traditional and Cloud Data Centers. Enlist the Cloud Models. Explain anyone in detail with example.  OR	07 07
Q.4	(a) (b)	What is PaaS? Explain in Detail with Example.  Define the following terms:  a) Hypervisor.  b) Para Virtualization.  c) Full Virtualization.  d) Provisioning.  e) Utility Computing.  f) Multi-tenancy. g) Latency.	07 07
Q.5	(a) (b)	What is Cluster Middleware? Describe Middleware Design Goals.  Explain Berkeley NOW cluster project in detail.  OR	07 07
Q.5	(a) (b)	Explain Cloud Work Load in Detail.  Define and Explain Public, Private and Hybrid clouds.	07 07

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