Seat No.:	Enrolment No.

GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER-VII EXAMINATION - WINTER 2015

Subje	ect (Code: 170704 Date: 16/12/2015	
-		Name: Advance Computing Technology	
		2:30am to 1:00pm Total Marks: 70	
Instru		s: Attempt all questions.	
	2.	Make suitable assumptions wherever necessary. Figures to the right indicate full marks.	
Q.1	(a)	Explain the key characteristics of scalable parallel computers in details.	07
	(b)	Describe the benefit of single system image.	07
Q.2	(a)	Draw and explain the cluster computing architecture.	07
	(b)	What do you mean by resource management and scheduling (RMS)? Explain the services provided by a RMS environment.	07
		OR	
	(b)	Explain the flexible load sharing algorithm in detail.	07
Q.3	(a)		07
	(b)	Explain CROSS-SITE TRUST MANAGEMENT in production grid. OR	07
Q.3	(a)	31	07
	(b)		07
Q.4	(a)	Explain I-WAY project in detail.	07
	(b)		07
Q.4	(a)	OR Mention the common needs of grid applications. What are the data and functional requirements of grid computing?	07
	(b)	What is cloud computing? Explain the benefits and limitations of cloud computing.	07
Q.5	(a)	1 21	07
	(b)	Explain the different types of data that is stored on clouds and explain the important parts related to the protection of the data in detail. OR	07
Q.5	(a)	Explain the different cloud models in detail.	07
	(b)	Explain the working model of SaaS in detail.	07
