Seat No.:	Enrolment No.

## **GUJARAT TECHNOLOGICAL UNIVERSITY**

ME - SEMESTER- II(Old course) • EXAMINATION (Remedial) - WINTER- 2015

Subject Code: 1721003 Subject Name: Advanced Air Conditioning			Date: 11/12/2015	
-	:2:3	60 pm to 5:00 pm Total Marks:	70	
	1. 2.	Attempt all questions.  Make suitable assumptions wherever necessary.  Figures to the right indicate full marks.		
Q.1	(a)	What is the difference between RSHF, GSHF and ESHF? Explain with a block diagram and skeleton psychometric chart.	07	
	(b)		07	
Q.2	(a)	Give classification of cooling towers and describe with a neat sketch counter flow induced draught cooling tower.	07	
	(b)		07	
	(b)		07	
Q.3	(a) (b)	Explain the factors affecting the selection of air conditioning system Explain the following terms as applied to cooling tower: Range, Approach, effectiveness, Drift	07 07	
0.2	(a)	OR Classify air conditioning systems board on system abanataristics. Explain air	07	
Q.3	(a)	Classify air conditioning systems based on system characteristics. Explain airwater system with a neat sketch.	07	
	(b)	Write a short note on air washer.	07	
<b>Q.4</b>	(a)	Explain the testing of desert coolers as per BIS.	07	
	(b)	Write a short note on factors affecting grille performance.  OR	07	
Q.4	(a) (b)	Explain fan characteristic of forward curved centrifugal fan.  Describe static regain method of duct design	07 07	
Q.5	(a) (b)	Explain static regain method of duct design. Explain the following: Air dew point, Room ADP, Coil ADP.	07 07	
Q.5	(a)	OR How are duct systems classified? Explain with neat sketches, methods of	07	
	(b)	reducing pressure losses in elbow.  Explain about comfort chart and its use in air conditioning.	07	

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