Seat No.:	Enrolment No.

GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER-VIII EXAMINATION – WINTER 2015

Subject Code:182401 Date:09/12/2 Subject Name: PEAPS Fime: 2:30pm to 5:00pm Total Mark Instructions:		015	
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nsu u	1. 2.	Attempt all questions. Make suitable assumptions wherever necessary. Figures to the right indicate full marks.	
Q.1	(a)	Define the following terms: 1. FACTS 2. SVC 3.BESS 4.SSG 5.TCBR 6.TSR 7. PQ	07
	(b)		07
Q.2	(a) (b)	2. List the benefits with application of FACTS Controller.3. Explain applications of FACTS controller in distribution system.	02 03 02 07
	(b)		07
Q.3	(a)	Explain the basic operating principle, characteristics and applications of STATCOM.	07
	(b)		07
Q.3	(a) (b)		07 07
Q.4	(a)	Define THD. Explain the active shaping of input line current in non-linear load using necessary circuit diagram, waveforms and equations.	07
	(b)		07
Q.4	(a)		07
	(b)	± • •	07
Q.5	(a) (b)	•	07 07
Q.5	(a) (b)		07 07