Seat No.:	Enrolment No.

GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER-VIII • EXAMINATION – SUMMER • 2015

Subject Code: 180301 Date:11/05/2 Subject Name: Rehabilitation Engineering Time:10.30AM-01.00PM Total Mark Instructions:		Code: 180301 Date:11/05/201	Date:11/05/2015	
		: 70		
	1. 2. 3.	Attempt all questions. Make suitable assumptions wherever necessary. Figures to the right indicate full marks.		
Q.1	(a)	Enlist different reading AIDS for Visual Impaired. & explain Braille as a Tactile Reading Substitute.	07	
	(b)	Differentiate Orthosis, Prosthesis and Orthoprosthetics and explain Myoelectric Hand & Arm prostheses as assistive device.	07	
Q.2	(a) (b)	What is ADL? Explain Self Aligning Orthotic Knee Joint. What is Disability? Explain Engineering concepts in sensory Rehabilitation OR	07 07	
	(b)	What is Rehabilitation & Rehabilitation Engineering? Explain Engineering concepts in motor rehabilitation.	07	
Q.3	(a) (b)	Enlist different types of ETAs. Explain Mowat sensor as a Travel AID. Give the difference between Kinematics and Kinetics. Explain Powered Wheelchair in detail.	07 07	
Q.3	(a) (b)	OR Short Note: Hearing Aids as a Auditory Substitute Give the detail Classification of Wheelchairs.	07 07	
Q.4	(a) (b)	Explain OCR & Automatic reading machine in detail Explain Auditory assistive devices. OR	07 07	
Q.4	(a) (b)	Explain Tadoma method & Tactile vocoders. Explain FES system with its application.	07 07	
Q.5	(a)	Enlist and Explain different Impairments and Related Assistive Technologies developed for Disable.	07	
	(b)	Explain subjective and objective measurement methods and assessment in rehabilitation.	07	
Q.5	(a) (b)	OR Explain Conceptual framework of Technology and disability. Explain Scope of Measurement in rehabilitation.	07 07	
