

GUJARAT TECHNOLOGICAL UNIVERSITY
BE - SEMESTER-VII (NEW) EXAMINATION – SUMMER 2022

Subject Code:3170906**Date:08/06/2022****Subject Name:Advanced Power Electronics****Time:02:30 PM TO 05:00 PM****Total Marks: 70****Instructions:**

1. Attempt all questions.
2. Make suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.
4. Simple and non-programmable scientific calculators are allowed.

		MARKS
Q.1	(a) Give comparison between continuous conduction mode and discontinuous conduction mode.	03
	(b) Discuss static characteristics of SVC.	04
	(c) Derive output equation for the buck-boost converter with necessary.	07
Q.2	(a) Discuss multi output switch mode regulators.	03
	(b) What is the need of Resonant Converter? Compare Series Loaded Resonant (SLR) converter with Parallel loaded resonant (PLR) Converter.	04
	(c) Discuss discontinuous mode of operation in buck boost converter with waveforms.	07
	OR	
	(c) Explain zero current switching dc-dc converter.	07
Q.3	(a) Explain the concept & need of Multi Level Inverter (MLI)	03
	(b) What are the advantages of cascaded H bridge multi-level inverter over other two topologies?	04
	(c) Explain the operation of zero voltage switching resonant converter with circuit diagram, waveform and required equation.	07
	OR	
Q.3	(a) Draw schematic diagram of 12 pulse converter with transformer connection.	03
	(b) Discuss difference between series and shunt compensation.	04
	(c) Discuss sine PWM techniques used for multilevel inverter.	07
Q.4	(a) Classification Of FACTS devices.	03
	(b) Discuss need of phase shifting transformer.	04
	(c) Explain following transformer connection with phasor diagram used in multi pulse converter. (a) Y-Z1 (b) Δ -Z1	07
	OR	
Q.4	(a) Discuss static synchronous series compensator.	03
	(b) Give comparison of HVAC and HVDC transmission.	04
	(c) Explain the operation of six pulse diode rectifier with resistive load with necessary diagram and waveforms.	07
Q.5	(a) Explain working principal of SSSC.	03
	(b) Comparison of SVC & STATCOM.	04
	(c) Discuss operation of Flyback converter. Draw its circuit diagram and waveforms.	07

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Anthony S. Fauci



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