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.

waveforms.

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

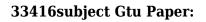
MARKS O.1 (a) Give comparison between continuous conduction node 0.3 and the fill discontinuous conduction mode. (b) Discuss static characteristics of SVC. 0.4 (e) Derive output equation for the buck-boost converter with necessary. 0.7Discuss multi-output switch mode regulators. 0.3 O.2 (a) (b) What is the need of Resonant Converter? Compare Series Loaded Resonant 04 (SLR) converter with Parallel loaded resonant (PLR) Converter. Discuss discontinuous mode of operation in buck boost converter with (c) 07 waveforms. (e) Explain zero current switching de-de converter. 0.7 O.3 (a) Explain the concept & need of Multi Level Inverter (MLI) 0.3 (b) What are the advantages of cascaded H bridge multi-level inverter 04 over other two topologies? (c) Explain the operation of zero voltage switching resonant converter 07 with circuit diagram, waveform and required equation. **COBC** Draw schematic diagram of 12 pulse converter with transformer Q.3 (a) 0.3 connection. 04 (b) Discuss difference between series and shunt compensation. 07 (c) Discuss sine PWM techniques used for multilevel inverter. Q.4 (a) Classification Of FACTS devices. 0.3 0.4 (b) Discuss need of phase shifting transformer. Explain following transformer connection with phasor diagram used in 07 (c) multi pulse converter. (a) Y-Z1 (b) Δ-Z1 0.3 O.4 (a) Discuss static synchronous series compensator. (b) Give comparison of HVAC and HVDC transmission. 6.4 (c) Explain the operation of six pulse diode rectifier with resistive load with 07 necessary diagram and waveform. Q.5 (a) Explain working principal of SSSC. 0.3 (b) Comparison of SVC & STATCOM. 0.4

(e) Discuss operation of Flyback converter. Draw its circuit diagram and

07

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