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Regular/Back Exam-2075, Falgun/Chaitra

Program:	Diploma in Electrical/DEEX Engineering	Full Marks: 60
Year/Part:	III/I (2014, 2008)	Pass Marks: 24
Subject:	Power Electronics	Time: 3 hrs

Candidates are required to give their answers in their own words as far as practicable. The figures in the margin indicate full marks.

Attempt **Any Five** questions.

1. a) Explain construction and characteristics of GTO. [3+3]
b) Explain the methods of turning on the thyristor. [6]
2. a) Explain the working principle with circuit diagram & waveforms, of single phase full wave controlled rectifier with four number of thyristor with Highly inductive load. [6]
b) Explain three phase bridge rectifier with six numbers of diodes. [6]
3. a) Describe step down chopper and explain the constant and variable chopping frequency operation. [6]
b) A DC chopper has an input voltage of 230V and an output voltage of 150V. It is operating at frequency of 1-5 KHz. Find the turning on time & turning off time in each cycle. [6]
4. a) Explain single phase half- bridge inverter of operating principle and rms value of output voltage. [6]
b) Explain three phase bridge inverter with six step output voltage waveform. [6]
5. a) Explain working principle of single phase AC voltage controller with resistive load and draw the voltage & current waveforms. [6]
b) Explain three phase AC voltage controller with resistive load and draw waveform for $\lambda = 60^\circ$ [6]
6. Write short notes on: **(any Four)** [4x3=12]
 - a) Power diode V/S single diode
 - b) MOSFET V/S IGBT
 - c) ELC
 - d) Ripple factor
 - e) Commutation

Good Luck

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exercise 9 an optimal control problem with an analytical solution we consider the problem of maximizing a linear function of the final state of a linear system subject to bounds on the inputs maximize dtx_n subject to $u \leq u_0$ $n = 1, \dots, n_p$ $1 \leq t \leq \alpha$ where x and u are related via the recursion $x(t+1) = Ax(t) + Bu(t)$

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2018 2019 exercise 3 determine using the simplex algorithm with bland's rule the optimal solution to the following linear programming problem $\max s = t_1 + 3x_2 + 5x_3 + 2x_4$ $x_1 + 2x_2 + 3x_3 + x_4 = 3$ $2x_1 + x_2 + x_3 + 2x_4 = 4$ $x_1, x_2, x_3, x_4 \geq 0$ solution the problem in standard form is the initial tableau is $\min s = t_1 + s_1 + s_2$

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nov 5 1998 as a linear program a computer program can be used to solve the problem in this regard solving a linear program is relatively easy the hardest part about applying linear programming is formulating the problem and interpreting the solution linear equations all of the equations and inequalities in a linear program must by definition be

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formulate the appropriate linear programming problem solution a unknowns define x number of type a sheds produced each day y number of type b sheds produced each day chapter 5 linear programming exercise 5a 1 ann and margaret run a small business in which they work together making blouses and skirts

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