

Time : 3 Hours

Total Marks : 80

Min. Passing Marks : 24

 **Instructions to Candidates :**

Attempt any five questions selecting one question from each unit. All questions carry equal marks. Schematic diagrams must be shown wherever necessary. Any data you feel missing suitably be assumed and stated clearly. Units of quantities used/calculated must be stated clearly.

**UNIT-I**

1. (a) Draw and explain the characteristics of MOSFET. [8]
- (b) Explain the two transistor model of SCR. [8]

OR

1. (a) Draw & explain the characteristics of IGBT. [8]
- (b) Differentiate between SCR and GTO. [8]

**UNIT-II**

2. (a) A 230V, 50Hz, one pulse SCR controlled converter is triggered at a firing angle of  $40^\circ$  and the load current extinguishes at an angle of  $210^\circ$ . Find the
  - (i) Average output voltage
  - (ii) Average load current[8]
- (b) Explain the single phase asymmetrical converter with suitable waveforms. Determine the average output voltage formula. [8]

OR

2. (a) Explain the  $180^\circ$  mode of voltage source inverter. [8]
- (b) Describe the voltage control techniques in inverter. [8]

**UNIT-III**

3. (a) A DC Chopper has a resistive load of  $20\Omega$  and input voltage  $V_s = 220V$ . When the chopper is on, its voltage drop is 1.5V and chopping frequency is 10 kHz. If duty cycle is 80%, determine the average output voltage, rms output voltage and chopper on time. [8]
- (b) Explain the step up chopper. [8]

# Industrial Electronics N2014 Question Paper

**M Tight**



**Industrial Electronics N2014 Question Paper:**

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white cheese similar to feta old cheese kaşar peyniri black and or green olives zeytin butter thick cream kaymak honey jam an omelet or boiled eggs yumurta are regular players of the game the surprise ingredients are sucuklu yumurta and börek these two are the most common dishes served to spoil the guests

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