Correction in EEE602

POWER ELECTRONICS

Date: 15-05-2015

Evening Shift

Corrections:

Q3(a). A single phase half controlled bridge operated from the 230V, 50 HZ mains feed a resistive load of 100 ohm. If the firing angle is 60º, calculate

i. **Average output voltage**
ii. **rms output voltage**
iii. **Total output power**
iv. **DC output power**
v. **Load current at instant of turn on**

Q3(c). Discuss the working of 1φ full wave ac-dc converter taking into account the effect of source inductance. Draw the output voltage waveform for firing angle of 30º.

Q5(b). Explain operation of a 3φ bridge inverter employing 120˚ mode of operation. Draw waveforms of phase voltages and any one line voltage assuming star connected resistance load.