EMO Assignment (3) Theory
PHY-120 Assignment (3) Theory
Q1 An ims voltage of 180 V is applied
to a device that has a resistance of
Son. Find (c) maximum voltage explied
(b) maximum current (c) the ims current
Supplied.

Q2 An inductor L = 0.2H is connected to a source for which the peak voltage is 260V and the frequency is SOHZ.

What is the peak current?

Q3 A generator is connected across a capacitor of Capacitonce 0.65 MF. If the sms voltage and frequency of the generate are 160 V and 2001-12 respectively, Find the capacitive reactance and sms current in the circuit.

Q(4): A inductor having a reactance of 80 s. gives off heat at the rate of 50 Js' when it carries a current of 1.5 A. Calculate the impedence of the inductor.

Os: Monochromatic light of wovelength 689nm is used in Young's experiment with the slits separated by a distance of 1.5x10m. If the screen is placed at a distance of 2.5m from the slits. Find the distance on the screen between the central fringle and the fourth-order bright sing.