Que	estion 23 (7 marks)	
(a)	State Lenz's law.	1
	With a phange in this	
(b)	Sield induces a current. When the metal rod is moved upwards through the magnetic field as shown in the diagram, an emf is induced between the two ends.	
	Direction of motion	
	End Y End X	
	(i) Which end of the rod is negative?	1
	(ii) Explain how the emf is produced in the rod.	3
	There is a breaking of	
	magnetic sux lines between	
	magnetic sux lines between	
	the metal rod to a moved	
	between them. There is then	
	as emfinduced into the	
(c)		met.
	This is used in induction	
	stones. The element uses	
	the change in magnetic stup	
	to create a corrent.	
	therefore there is resistance in	

this heats up -22- conductor,