6 (a)	Dist	tinguish between electromotive force (e.m.f.) and potential difference (p.d.).
		[2]
(b)		attery of e.m.f. 12V and internal resistance 0.50 Ω is connected to two identical lamps, as wn in Fig. 6.1.
		12V
Fig		Fig. 6.1
		ch lamp has constant resistance. The power rating of each lamp is 48W when connected oss a p.d. of 12V.
	(i)	Explain why the power dissipated in each lamp is not 48W when connected as shown in Fig. 6.1.
		[1]
	(ii)	Calculate the resistance of one lamp.
		resistance = Ω [2]