

10(a)	product of density and speed
	speed of sound in medium (and density of the medium)
10(b)	ultrasound waves cause crystal to vibrate
	vibrations (of crystal) cause induced e.m.f. (across crystal)
10(c)(i)	intensity reflection coefficient= $(40.4 - 1.48)^2 / (40.4 + 1.48)^2$
	= 0.86
10(c)(ii)	Z values are very similar
	(almost) all the ultrasound will be transmitted or (almost) none of the ultrasound will be reflected