Question number	Answer	Notes	Marks
9 (a)	C (longitudinal waves)		1
(b)	FIVE marking areas –	ACCEPT points made on a labelled diagram	5
	Reference to speed = distance travelled ÷ time taken;	Need not be explicit, could be through description, e.g. 'and then divide the 100m by the time measured'	
	Measuring a time (of travel) for a known distance / measuring distance for a known time (of travel);	examples – 'stand a known distance away from a wall and time how long it takes for an echo to come back' 'put two microphones on a bench connected to a CRO to measure the time it takes for a sound to go from one microphone to the other'	
	Further appropriate detail for making a measurement;	stand at opposite sides of a room and time how long it takes for sound to go across' examples –stating suitable equipment and some indication of how to use it, e.g. 'have your partner facing away from you and start the timer when you make a sound – when they hear the sound they turn round and you stop the timer'	
	Idea of repeats / averaging / range of values;		
	Realistic values for experiment to work suggested;	Details of ALL relevant measurements NOT required, just one example e.g. – realistic – 'have your partner stand 100m away' 'stand 50m from a wall...time echo' 'place two microphones 1m apart...'	