

Q1. (2018)

05.1	in a longitudinal wave, the oscillations / vibrations are parallel to the direction of energy transfer	allow direction of travel for energy transfer	1	AO1 6.6.1.1
	in a transverse wave, the oscillations / vibrations are perpendicular to the direction of energy transfer	allow direction of travel for energy transfer if no other mark scored allow 1 mark for (oscillations / vibrations of) longitudinal waves are parallel and (oscillations / vibrations of) transverse waves are perpendicular if no other mark scored allow 1 mark for transverse waves have peaks and troughs and longitudinal waves have compressions and rarefactions	1	

Q2. (2022)

01.1	A = rarefaction		1	AO1 6.6.1.1
	B = wavelength		1	

Q3. (2023)

03.4	the oscillations / vibrations in longitudinal waves are parallel to the direction of energy transfer	allow direction of wave travel for direction of energy transfer	1	AO1 6.6.1.1
	(whereas) the oscillations / vibrations in transverse waves are perpendicular to the direction of energy transfer	 if no other mark awarded allow 1 mark for oscillations / vibrations in longitudinal waves are parallel and oscillations / vibrations in transverse waves are perpendicular	1	

Q4. (2024)

a)

03.1	speed (in a vacuum/air)	ignore they can travel through air	1	AO1 6.6.2.1
	or transfer energy	allow they can be reflected / refracted		

b)

03.2	oscillations / vibrations are perpendicular to the direction of energy transfer	allow wave travel for energy transfer	1	AO1 6.6.1.1
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