

Multiple Choice Answers

Q18: C

Multiple Choice Answers

Q17: D

Multiple Choice Answers

Q17: B

Multiple Choice Answers

Q16: C

5(a)	any two from: • (longitudinal) vibration / oscillation in wave parallel to propagation direction / direction of travel • transverse wave vibrates / oscillates perpendicular to propagation direction / direction of travel • (longitudinal) consists of compressions and rarefactions • transverse wave consists of crests / peaks and troughs • (longitudinal) needs a medium (to travel)
5(b)(i)	P-wave AND it is longitudinal
5(b)(ii)	$1.8 \times 10^4 \text{ m}$ OR 18km
	1.5λ OR $1.5 \times 1.2 \times 10^4$ OR 1.8×10^4
5(b)(iii)	$v = f\lambda$ OR $v = \lambda / t$ OR $(t =) \lambda / v$ OR $f = 4600 / 1.2 \times 10^4$ OR $(t / 5 =) 1.2 \times 10^4 / 4600$ OR $(t =) 6(.0) \times 10^4 / 4600$
	13s
	$t = 1 / f$ OR (time for one wave =) 2.6 (s)

Multiple Choice Answers

Q17: D

Q18: B

Multiple Choice Answers

Q17: A