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|---|--|---|
| 2 | <p><b>The only correct answer is A</b> (2 m)</p> <p>B is not correct because this would be 1.5 wavelengths<br/> C is not correct because this would be 2 wavelengths<br/> D is not correct because this would be 3 wavelengths</p> | 1 |
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| 10 | <p><b>D is the correct answer as Z is a full cycle from V, and compressions are separated by one full wave cycle.</b></p> <p>A is not the correct answer as W is neither a compression nor a rarefaction<br/> B is not the correct answer as X is a rarefaction<br/> C is not the correct answer as Y is neither a compression nor a rarefaction</p> | (1) |
|----|--|-----|

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| 8 | <p><b>C is the correct answer</b> (Both transverse and longitudinal waves can be refracted)</p> <p>A is not the correct answer as it is only electromagnetic waves that travel at the same speed in a vacuum – there are other transverse waves which travel at different speeds<br/> B is not the correct answer as transverse waves have vibrations that are perpendicular to the direction of wave travel<br/> D is not the correct answer as light is a transverse wave that can travel through liquids</p> | (1) |
|---|---|-----|

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| 5 | <p><b>B is the correct answer</b></p> <p>A is not the correct answer as the time period can be determined from the graph<br/> C is not the correct answer as the wave could be transverse or longitudinal<br/> D is not the correct answer as the wave could be transverse or longitudinal</p> | (1) |
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