#### P. Sci. Waves Key

Put all answers on a separate sheet of notebook paper.

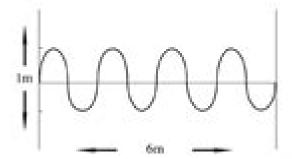
- Mechanical waves need a <u>neediam</u> through which to transport energy.
- The particles in a surface water wave move \_in a circle (back-&forth / up & down).
- Waves in which the particles of medium move at right angles to the direction of the wave are \_transcrie\_ waves.
- The \_wavelength\_ of a wave is measured from the crest of one wave to the crest of the next.
- If the wavelength of a given wave decreases, you know that its frequency will \_income\_
- Two waves have the same frequency and wavelength, but the first wave has a greater amplitude. The energy of the first wave \_greater than that of the second.
- Wave A has a greater frequency than wave B, but the amplitude of the two waves is the same. The energy of wave A is \_equal to that of wave B.
- 8. The unit for frequency is the \_bertr\_.
- 9. A wave will travel only as long as it has energy to carry
- When you squeeze together the coils of a spring and then release them, you are creating a <u>correctional</u> wave
- 11. Waves in which the particles of the medium move only in the same direction as the motion of the wave are compressional waves
- 12. You are creating a wave on a spring. If you start shaking the spring more slowly, the wavelength of the resulting wave will \_\_increase\_\_
- 13. If you are lying on a ruft, and you notice that the number of waves that go past the ruft increases, you also find that the distance between each crest <u>decreases</u>.
- 14. Wave A carries more energy than wave B. Wave B has a smaller \_ amplitude \_ than wave A.
- 15. The energy a wave carries is measured by its \_\_amplitude \_.
- For a given wave, if the frequency doubles, the wavelength \_is halved .
- When a wave passes from a less dense medium to a more dense medium, the <u>speed</u> may change
- Repeating disturbances that transfer energy through matter or space are waves.

- The two types of mechanical waves are \_\_transverse\_ and compressional (longitudinal)
- If the frequency of a water wave changes, its <u>wavelength</u> must also change
- 21. The symbol \(\lambda\) (lambda) stands for the \_\_wavelength \_.



Figure 11-1

- In Figure 11-1, identify the following structures:
  B wavelength. A crest. C amplitude
- 23. Speed can be determined by dividing the distance traveled by the time. The water waves in a lake travel 4.4 m in 2.0 s. What is the speed of the waves? y = 61. y = 4.4m/2.0s y = 2.2 m/s
- 24. An ocean wave has a frequency of 2.0 Hz with a wavelength of 10 m. What is the velocity of the wave? v = f x k v = 2.0 Hz x 10 m v = 20 m/s



- 25. The wavelength of the wave in the diagram is 1.5 m
- 26. The amplitude of the above wave is 0.5 m.
- 27. A man is standing on the shore of a beach, up to his knees in water. Every 5 seconds a wave breaks on him. What is the period of the wave? 5 seconds

# **Mechanical Wave Review Answers**

**Lei Huang** 

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**Waves** Rumi Michael Leigh,2023-05-24 Waves Things You Should Know Questions and Answers explains the principles of wave motion through a question and answer format The text covers frequency wavelength amplitude velocity and energy transfer with worked examples to show how these properties are applied in physics Topics include mechanical waves sound waves light waves and electromagnetic waves with attention to how they propagate and interact Exercises move from basic definitions to more advanced problems including calculations of wave speed period and phase difference The book also examines reflection refraction interference and resonance connecting theoretical concepts with problem solving practice This book will interest students physics learners and exam candidates who want to study waves and their role in science

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- 1. Understanding the eBook Mechanical Wave Review Answers
  - The Rise of Digital Reading Mechanical Wave Review Answers
  - Advantages of eBooks Over Traditional Books
- 2. Identifying Mechanical Wave Review Answers
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
- 3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Mechanical Wave Review Answers
  - User-Friendly Interface
- 4. Exploring eBook Recommendations from Mechanical Wave Review Answers
  - Personalized Recommendations
  - Mechanical Wave Review Answers User Reviews and Ratings
  - Mechanical Wave Review Answers and Bestseller Lists
- 5. Accessing Mechanical Wave Review Answers Free and Paid eBooks

- Mechanical Wave Review Answers Public Domain eBooks
- Mechanical Wave Review Answers eBook Subscription Services
- Mechanical Wave Review Answers Budget-Friendly Options
- 6. Navigating Mechanical Wave Review Answers eBook Formats
  - ∘ ePub, PDF, MOBI, and More
  - Mechanical Wave Review Answers Compatibility with Devices
  - Mechanical Wave Review Answers Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Mechanical Wave Review Answers
  - Highlighting and Note-Taking Mechanical Wave Review Answers
  - Interactive Elements Mechanical Wave Review Answers
- 8. Staying Engaged with Mechanical Wave Review Answers
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Mechanical Wave Review Answers
- 9. Balancing eBooks and Physical Books Mechanical Wave Review Answers
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Mechanical Wave Review Answers
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Mechanical Wave Review Answers
  - Setting Reading Goals Mechanical Wave Review Answers
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Mechanical Wave Review Answers
  - Fact-Checking eBook Content of Mechanical Wave Review Answers
  - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development

- Exploring Educational eBooks
- 14. Embracing eBook Trends
  - Integration of Multimedia Elements
  - Interactive and Gamified eBooks

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