

Name:

No:

Multiple Choices

1. _____ is the product of velocity and density.
 - a. Poisson's ratio
 - b. Fermat's principle
 - c. Acoustic Impedance
 - d. Young's modulus

2. The slope of the travel time for each of the P, S and direct arrivals is the _____ of velocity.
 - a. Square root
 - b. Square
 - c. Cube
 - d. Inverse

3. The wave that originates from the source, enters the outer core and then detected at the surface is represented by the phase _____.
 - a. pP
 - b. PcP
 - c. P'
 - d. sP

4. Side- to- side motion is a characteristics of _____.
 - a. P - wave
 - b. S- wave
 - c. Rayleigh wave
 - d. Direct wave

5. Lithosphere is generally around _____ thick.
 - a. 50 -100 km
 - b. 100 – 200 km
 - c. 500 -1000 km
 - d. 250 -500 km

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6. pP is used for _____.
- P-wave upgoing from focus, reflected at surface
 - P- wave reflected at surface
 - P- wave reflected at surface twice
 - P- wave through outer core

Review Questions - True or False

- According to Snell's law, a ray traveling from one medium with velocity V_1 will bend towards the normal after entering the second medium with velocity V_2 , where $V_2 > V_1$.
- Maximum amplitude of particle motion occurs along the 45 degree phase wave front.
- Rayleigh waves have both longitudinal and transverse motion.
- Surface waves are smaller in amplitude and longer in duration than body waves.
- P and S waves are not seen in P-wave shadow zone.

Brief Description (not more than 4 lines each for the following)

12. Snell's law

13. Birch's law

14. Fermat principle

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15. Huygen's principle