EAS 4801: Planetary Sounds

Quiz 1 (1 pts each, 5 pts total; 01/17/2020)

Student ID:

ANSWER KEY

Name:

| 1: The sound speed in fresh water is about? a) 340 m/s b) 1.5 km/s c) 3 km/s d) 6 km/s | |
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| 2: Two waves are traveling through the same container of nitrogen gas. Wavelength of 1.5 m. Wave B has a wavelength of 4.5 m. The speed of wave A? a) one-ninth b) one-third c) the same as d) three times larger than | vave B must be |
| 3: Doubling the frequency of a wave source doubles the speed of the waa) Trueb) False | ves |
| 4: If a sound wave has a frequency of 500 Hz, how many cycles can it of kilometer distance (if needed, you can use the sound wave speed in dry a a) 2 b) 343 c) 500 d) 1458 (not 686) | |
| 5: If the intensity I of a sound wave exceed the reference intensity I_o by a the intensity level β of that sound wave is (if need, use the intensity level dB log10 (I/I_o)? a) 1 b) 3 c) 30 d) 1000 | |