W A) 2: B) 3: C) 4: D) 4! E) 5:	a wave travels at 175 m/s along the x-axis. If the period of the periodic vibrations of the vave is 3.0 milliseconds, then what is the wavelength of the wave?  5.5 cm  5.6 cm  2.9 cm  9.5 cm  2.5 cm  3.8 cm
th A) 2 B) 2 C) 3 D) 4 E) 4	The wavelength of a periodic wave is 0.75 m. If the frequency is 425 Hz, then what is no velocity of the wave?  10 m/s  76 m/s  19 m/s  10 m/s  72 m/s  ans:
345 m/s.	Hz Hz Hz
345 m/s. 1	Hz Hz Hz
	ad wave radiates from a source in all directions. If the power of the sound source is 200 in the intensity level of the sound wave 1000 m from the source is, in dB

6) The speed of sound in helium is 965 m/s. If the density of helium is  $0.179 \text{ kg/m}^3$ , then what is the bulk modulus of helium,

- a)  $2.70 \times 10^5 \text{ N/m}^2$
- b) 2.40 x 10 <sup>5</sup> N/m<sup>2</sup>
- c) 2.20 x 10<sup>5</sup> N/m<sup>2</sup>
- d)  $1.70 \times 10^5 \text{ N/m}^2$
- e) 1.56 x 10  $^{5}$  N/m  $^{2}$

Ans: d

- 7) The speed of sound in air at  $0^{\circ}$  C is 331 m/s. What is the velocity of sound in air at a temperature of -30° C?
- a) 308 m/s
- b) 310 m/s
- c) 312 m/s
- d) 314 m/s
- e) 316 m/s

Ans: c