Hill Side School

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Full Name: _____ Grade: 7 Section: _____

Subject: Physics Year: 2012 E.C work sheet

PLEASE ATTEMPT THE FOLLOWING QUESTIONS AFTER STUDYING THE NOTES ON YOUR TEXT BOOK FROM PAGE 136-148.

I. Write True if the statement is correct and False if the statement is incorrect.

1. All sounds are produced by the vibration of bodies.
2. Sound travel through vacuum.
3. Sound is transmitted faster in air than in liquids.
4. As the temperature of air rises the speed of sound in air decreases.
5. The speed of sound in air is four times as its speed in steel.
6. The speed of sound in air is greater than the speed of sound in solids.

II. Fill in the Blank spaces with appropriate word or words.

1. The three prerequisites of having sound are_____, _____, _____.
2. An echo is not produced unless the reflecting surface is at least _____ meters from the source of sound.
3. The speed of sound in air at 0 o C is_____ m/s.

III. Short answer Questions

1. Explain how sound is produced. 2. What is sound?
3. Explain how an echo is formed.

4. Explain why the speed of sound in solid and liquid are greater than the speed of sound in gases.

5. List two applications of an echo.

Iv. Match column A with column B.

A

1. Sound
2. Echo
3. 4998 m/s
4. 5628 m/s
5. Flute
6. 331 m/s

B

a) the speed of sound in glass at 0°c

b) the speed if sound in air at 0°c

c) the speed of copper at 0°c

d) the reflection of sound

e) a series of disturbances in material to which the human ear is sensitive

f) Air vibrating musical instrument.