

GIRLS' HIGH SCHOOL AND COLLEGE, PRAYAGRAJ

SESSION: 2020-2021

CLASS: X (A B C D E F)

SUBJECT: PHYSICS

CHAPTER: SOUND

INSTRUCTIONS FOR THE ASSIGNMENT :

1. The parents to ensure that their ward watches the video instructions for this assignment attentively by clicking on the given link: <https://youtu.be/hbX07QldfT4> , revise the lesson given in the book and then work on the assignment. The completed assignment is to be submitted to this E-mail : jmitraproject2020@gmail.com

2. Students who have already submitted this assignment need not send it again.

TOPIC: REFLECTION OF SOUND WAVES AND ECHOES

Answer the following questions briefly:

Question 1 State two differences between light and sound waves.

Question 2 What do you mean by reflection of sound?

Question 3 State one condition for the reflection of a

sound wave.

Question 4 What is meant by an echo?

Question 5 State two conditions necessary for an echo to be heard distinctly.

Question 6 What is 'SONAR'? State the principle on which it is based.

Question 7 State the use of echo in medical field.

Question 8 State the use of echo by a bat, dolphin and fishermen.

Question 9 Name the waves used for sound ranging. State one reason for their use.

Question 10 Calculate the minimum distance in air required between the source of sound and the obstacle to hear an echo. Take speed of sound in air = 350 m/s.

END