

I. Give short answer for the following questions.

PLEASE ATTEMPT THE FOLLOWING QUESTIONS AFTER STUDYING THE NOTES ON YOUR TEXT BOOK FROM PAGE 123-146.

1. What is the;
 - a. highest temperature recorded? When & where?
 - b. lowest temperature recorded? Where & when?
2. Write the 3 change of state processes and their reverse processes.
3. In which material medium(solid, liquid & gas) sound travels faster?

II. Workout the following questions.

4. A thunder was heard 5 seconds later after the lightning is seen. If the distance of the lightning is 1396 m away from the observer, what is the speed of sound at that temperature?

5. The speed of sound in air at certain temperature is 421 m/s. At what temperature can this speed happen? (Take $V_0 = 331$ m/s at 0°C)