

**UNIT- 5 – ACOUSTICS****I. Answer in brief (2/3 marks)**

1. What is sound wave?
2. Differentiate between sound and light.
3. What is particle velocity and wave velocity?
4. Write down the laws of reflection.
5. Define Echo? What is the minimum distance needed for an echo?
6. What is Doppler effect?
7. Why does sound travel faster on a rainy day than on a dry day?
8. Why does an empty vessel produce more sound than a filled one?
9. Explain why the ceilings of concert halls are curved.
10. Mention the condition in which there is no Doppler effect.

**II. Answer in a paragraph (5 marks)**

1. Explain about the factors affecting velocity of sound.
2. Explain about reflection of sound in plane and curved surfaces.
3. Explain about reflection at the boundary of denser and rarer medium.
4. Write about applications reflection of sound.
5. Write about applications of Doppler effect.



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