

Knowledge and Awareness Mapping Platform (KAMP)

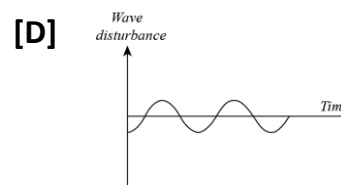
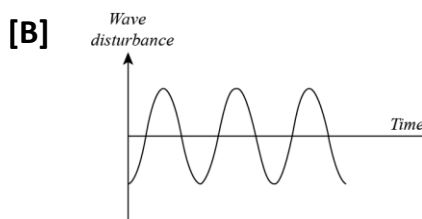
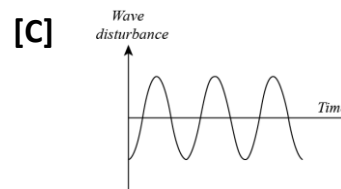
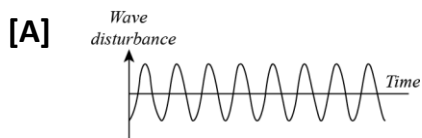
NASTA(2019 – 2020)

Sample paper-1

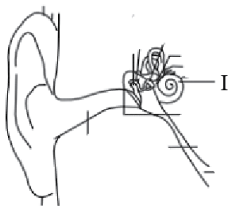
CLASS 9TH

- Which of the following is NOT a musical instrument?
[A] Tabla [C] plastic bottle
[B] flute [D] Sitar
- A scientist is testing an instrument for sound. He plays the instrument in four different places: in air, in water, in vacuum and in a closed room. In which of these cases will he hear no sound?
[A] Air [C] Water
[B] Vacuum [D] Closed room
- Imagine yourself to be trapped in a house when lightning strikes the city. Which of the following would you likely not do to save yourself from lightning?
[A] Coming out in the open and opening an umbrella [C] Standing as far off from the trees as possible
[B] taking shelter under a tree [D] Unplugging the electrical appliances
- Mira's teacher told her that by studying a wave, scientists can construct the complete map of the earthquake. About which of the following wave is her teacher talking about?
[A] Radio wave [C] Seismic wave
[B] Surface wave [D] none of these

5. Suppose you are sitting in your car and suddenly a thunderstorm occurs. What will you do?
- [A] Remain inside the car
- [B] Get out of the car and stand under the sky
- [C] Get out of the car and stand under a tree
- [D] Get out of the car and hold an electrical pole
6. A teacher draws the waveforms for sound on the board asks the students as to identify the waveform for a low-pitch sound.



7. Look at the figure given below.



Identify the labelled part in the figure.

- [A] Eardrum
- [B] Pinna
- [C] Iris
- [D] Cochlea
8. Identify the correct statement.
- [A] The nucleus of an atom has a neutral charge.
- [B] The nucleus of an atom has protons and neutrons.
- [C] The nucleus of an atom has the same volume as that of the atom.
- [D] Neutrons in an atom repel protons

9. Rohit's mother made halwa. When he returned from School, he could smell in from outside of his house and was happy. Why could he smell the aroma of his favorite food even without seeing it?
- [A] Particle in gases have large space between them and high speed [C] Because the sweet dish was yum
- [B] Because doors were open [D] Because Rohit was hungry
10. Ishan is a good swimmer. While swimming he easily cuts through water in swimming pool but he cannot cut through a tile or brick. Why?
- [A] Tile or Brick is hard [C] Water is cold.
- [B] Water being liquid has its particles loosely packed whereas solids has tightly packed particles. [D] He knows swimming well.
11. Ammonium Chloride when heated changes directly into vapors and you can smell it from far. The process is called as
- [A] Melting [C] Sublimation
- [B] Evaporating [D] Boiling
12. Arjun was playing with a torch light. He suddenly shifted the light towards his glass of milk. He was amazed to be able to see the path of light through milk. What type of mixture is milk?
- [A] Homogenous solution [C] Heterogeneous solution
- [B] Suspension [D] Colloidal solution
13. In ammonia, nitrogen and hydrogen are always present in ratio of 14:3 by mass. What mass of nitrogen would be required to react completely with 15gm of Hydrogen?
- [A] 26gm of nitrogen [C] 28 gm of nitrogen
- [B] 70 gm of nitrogen [D] 42 gm of nitrogen

