

FIRST MID TERM EVALUATION JULY : 2016 - '17

Time : 45 mts

Std. X

PHYSICS

Total Score : 20

Instructions:

- Attempt the questions based on the instructions provided.
- Score for each question is provided against the concerned question.

1. Fill in the blanks on the basis of the given relation. 1
Chlorine : Green

Nitrogen :

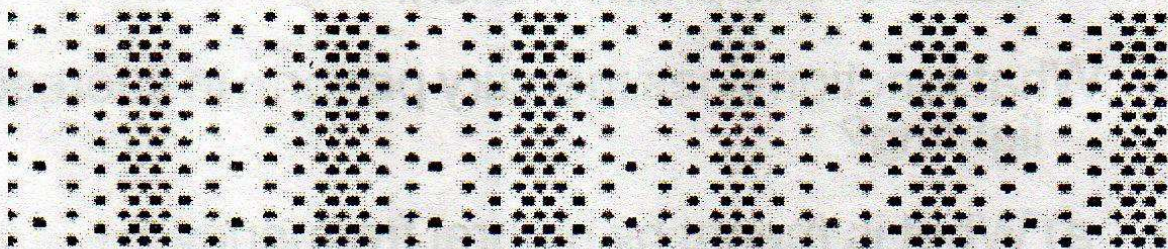
2. Arrange the following medium of sound in the increasing order of speed. 1

Water / Iron / Air

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3. Observe the diagram given below and answer the following questions.

R C R C R C R C R C R C



a) What does 'C' and 'R' represent? 1

b) What type of waves are given here? 1

4. Safety fuse is a device that works on the heating effect of electric current.

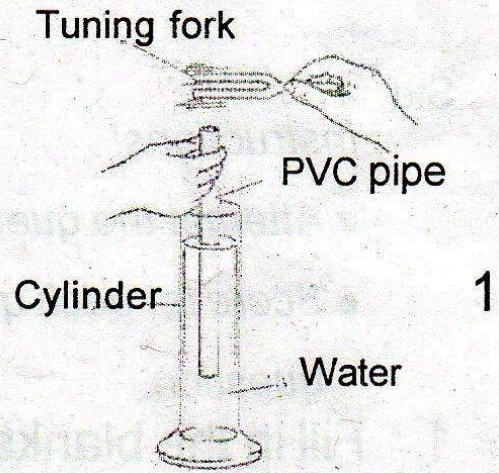
a) What is the role of safety fuse in an electric circuit? 1

b) Write the characteristics of the material used for making fuse wire. 1

5. Observe the given diagram.

a) What happens when the tuning fork and the PVC pipe is raised slowly ?

b) Explain your observation.



1

6. When a discharge lamp is connected to a source of electricity, the gas in between the electrodes gets ionized. How does this ionized gas helps to produce light? Explain. 2

7. Sound produced in a room gets reflected repeatedly from different objects there.

a) What is the name given to the phenomenon? 1

b) Write the name of a device which work on the basis of this phenomenon. 2

8. What function does mercury perform in fluorescent lighting? 2

9. a) What is meant by natural frequency ? 1

b) The stem of a vibrating tuning fork of frequency 512Hz is pressed on a table.

i) Why do we hear a louder sound? 1

ii) What is the frequency of the vibrating table? 1

10. a) Which one has more resistance - a 100 W bulb or 60 W bulb both are connected in a 200V supply? 1

b) Substantiate your answer mathematically. 2