



TEST PAPER: PHYSICS

Time: 45 Minutes

Class: CBSE 8

Max. Marks: 30 Marks

Date: 12th December 2018

Marking Scheme: All questions carry 10 marks each. Subparts (A) and (B) carry 3 marks each and subpart (C) carries 4 marks.

Question 1:

A. Define the following:

i. Regular reflection ii) Diffused reflection iii) Amplitude of a wave iv) Frequency of a wave v) Time period of a wave vi) Dispersion

B. Fill in the blanks:

- i) Unit of frequency is _____
- ii) Cone cells in the eye are sensitive to _____ light
- iii) Size of pupil is controlled by _____

C. Answer the following:

i) Boojho stands at A just on the side of a plane mirror as shown in fig. Can he see himself in the mirror? Also, can he see the image of objects situated at P, Q and R?

A(Boojho) .P .Q .R

ii) Lightning and thunder take place in the sky at the same time and at the same distance from us. Lightning is seen earlier and thunder is heard later. Can you explain?

Question 2:

A. Answer the following:

- i) Angle of incidence is 15 degree then what is the angle of reflection?
- ii) What is persistence of vision?
- iii) What is blind spot?

B. Answer the following:

- i) List sources of noise pollution and measures to limit noise pollution.
- ii) What is unit of loudness? What is the safe limit of loudness for human being? How loudness is related to amplitude of a sound wave?

C. Answer the following:

- i) Which wave property determines loudness and pitch? Give proper examples.
- ii) Identify the part which vibrates to produce sound in the following instruments:
 - a) Dholak b) Sitar c) Flute d) Veena

Question 3:

A. Answer the following

- i) Which part of human body vibrates while speaking or singing a song?
- ii) An object is vibrating at 100 hz. What is its time period?
- iii) Why cannot sound travel in vacuum?

B. Answer the following:

- i) State the laws of reflection.
- ii) Draw a neat diagram showing incident ray, reflected ray from a reflecting surface.

C. Answer the following:

- i) Describe with an activity to show that sound can travel through solids and liquids.
- ii) What is the angle of incidence of a ray if the reflected ray is at an angle of 90° to the incident ray? Draw a neat diagram to prove your answer.