

City International School

Second Summative Assessment 2015 - 2016

Date : 12/04/2016

Std : VII

Subject : Physics (Paper I)

Marks : 60

Time : 1 hrs

Answer to this paper must be written on the paper provided separately.

You will not be allowed to write during the first 15 minutes.

This time is to be spent in reading the question paper.

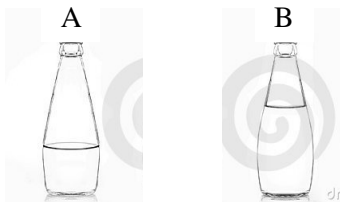
The time given at the head of this paper is the time allowed for writing the answers.

Attempt all questions from Section A and any three questions from Section B.

The intended marks for questions or parts of questions are given in brackets. ()

SECTION – A (30 MARKS)

All questions in this section are compulsory.

- Q. 1**
- a. Define -
 - i. Illumination (2)
 - ii. What is the S. I unit of Illumination (2)
 - b. State the laws of Reflection (2)
 - c. Differentiate between luminous and non-luminous body. (Any Two points) (2)
 - d. Define – Spherical Mirrors (2)
What are the different types of Spherical Mirrors?
 - e. State two factors that determine the type of Shadow formed by a Source of Light. (2)
- Q. 2**
- a. Differentiate between Transverse Waves and Longitudinal Waves (Any two points) (2)
 - b. Define : Amplitude, frequency with respect to sound. (2)
 - c. Explain : Why in outer space astronauts use radio in order to converse with each other. (2)
 - d.  (2)
 - i. In which of the bottle will the pitch be higher? Why?
 - e.
 - i. What is the unit of frequency. (2)
 - ii. State the audible range for human.

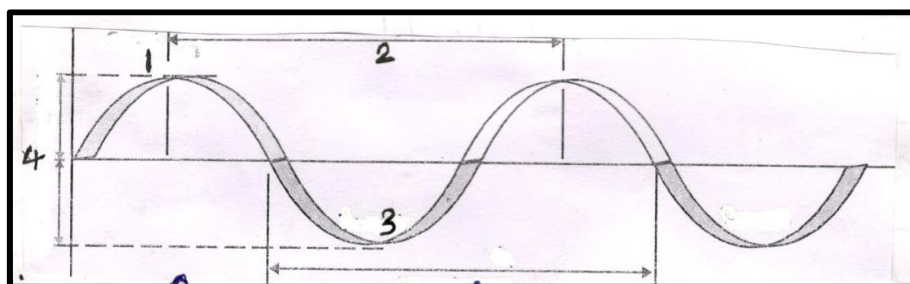
- Q. 3** a. State the Energy Conservation in the following cases: (2)
 i. Generator ii. Batteries
- b. Match the appropriate answer- (2)
 Colour Code of wires as per new international convention.

Colour Code	
Live	Light Blue
	Yellow
Earth	Brown

- c. i. Name on instrument used in Submarines to watch enemy ships. (2)
 ii. State the principle of the instrument mentioned above.
- d. Define : Electric power and state its mathematical form (2)
- e. When does an atom attain (2)
 i. A positive charge ii. A negative charge

SECTION – B (30 MARKS)
Attempt any three questions

- Q. 4** a. i. Observe the following graph and answer the following questions: (2)
 Identify 1,2,3 and 4



- ii. Define – 1 and 2 (2)

- b. State three characteristics of the image formed by a plane Mirror. (3)
- c. Name the different kind of Images and differentiate between them. (3)

- Q. 5** a. What is an eclipse? (1)

- b. Name the type of eclipses? Give two point of distinction between them. (3)

- c. Draw a Simple electric circuit with following components. (4)

- i. Battery ii. Resistance
 iii. Ammeter iv. Voltmeter

- d. State the following: (2)

- i. Nature of image when object is at F in a Concave mirror.
 ii. Position of image when object is beyond C in a Concave mirror.

- Q. 6**
- a.
 - i. Define – Earthing . (1)
 - ii. What happens when the live wire comes in contact with a metal case of an appliance. (2)
 - b.
 - i. With the help of ray diagram show how an image is formed by a convex mirror. (4)
 - ii. State any 1 characteristic of the image.
 - c. State three effects of rectilinear propagation of light. (3)
- Q. 7**
- a.
 - i. What is an echo? (1)
 - ii. Explain – At railway platforms, people often put their ear to the ground to find out if a train is approaching. (2)
 - b. List three main sources of obtaining electricity. Explain how? (3)
 - c. What is the unit- used for measuring: (2)
 - i. Voltage
 - ii. Resistance
 - d. What is Sound? How is the propagated? (2)