

# SUMMATIVE ASSESSMENT - I, October-2016

## PHYSICAL SCIENCE

(English Version)

(Max Marks: 40)

Time : 2.45 Hrs.

Class : **VIII**

Instructions :

- i) Answer all the questions.
- ii) Answer 2-4 sentences for 1 mark questions and 4-5 sentences for 2 marks and 8-10 sentences 4 marks questions.
- iii) Attach the Part-B to main answer sheet.

### SECTION - A

7x1=7

Note: i) Answer all the questions

ii) Each answer carries 1 mark only.

1. State the precautions, while conducting the "Reaction of sodium with water" experiment.
2. Suggest some alternatives for the indiscriminate use of plastics.
3. State fermat's principle.
4. Why do we feel pleasant when listened to musical sounds?
5. State the differences between real and virtual images.
6. How do you appreciate the wide range utility of aluminium right from utensils to arms and air crafts?
7. If plastic is not properly disposed, what could be the consequences?

### SECTION - B

Note: i) Answer the following questions in 4 - 5 sentences

6x2=12

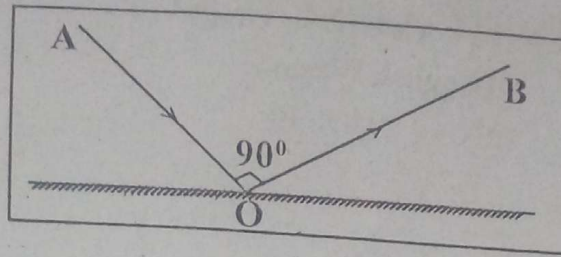
ii) Each answer carries 2 marks only.

8. A man is standing still on a level floor. What forces will act on him. Draw an FBD to show all forces acting on him.
9. Prepare a table of various synthetic fibres which are used to make household articles.
10. Imagine the human life without metals. Write briefly about the consequences.
11. Abhi is observing the live telecast of a one day cricket match. He noticed the motion of a roller on the pitch during lunch break. He thought about various forces acting on the roller and the net force when it is in motion. Many questions arose in his mind about the direction of net force. Can you write what would be those questions?

[ Turn Over



12. Find the angle of incidence ( $i$ ) and angle of reflection ( $r$ ) in the adjacent figure, if  $\overline{AO}$  and  $\overline{OB}$  are the incident and reflected rays respectively



13. How do you appreciate '4R' principle? Write in 4 sentences.

### SECTION - C

**Note:** Answer the following questions in 8 - 10 sentences

4x4=16

**Each answer carries 4 marks only.**

14. Explain a) Ductility, b) Malleability, c) Electrical unductivity and d) Thermal conductivity of metals with suitable examples.

(OR)

Explain the following terms

- |                  |                  |
|------------------|------------------|
| a) Blending      | b) Biodegradable |
| c) Recycling and | d) Decomposition |

15. How "FRICTION" is responsible for energy wastages? Give suggestions to reduce energy wastages by friction.

(OR)

Suggest some alternatives to reduce "Sound Pollution".

16. You had conducted a flame test in your classroom with Hair, Wool, silk, paper, cotton, piece of plastic and piece of nylon rope and a sweater. Based on your observations of smell and type of melting, classify them into natural and artificial fibres.

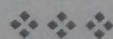
(OR)

Consider different musical instruments like veena, guitar, tabla, flute, drums, violin, piano and a Harmonium. Prepare a table of musical instrument and the vibrating parts in it to produce sound.

17. How do you verify the laws of reflection? Explain.

(OR)

How do you prove that 'Sound has energy'. Explain with two examples.





## PART - B

$$10 \times \frac{1}{2} = 5$$

## Instructions :

- i) Choose the correct answer and place in the brackets.  
ii) Each question carries  $\frac{1}{2}$  mark.

1. Rayon is prepared by \_\_\_\_\_ ( )  
A) coal B) Oxygen  
C) Fiber D) Cellulose
2. The natural fiber among the following ( )  
A) Rayon B) Nylon  
C) Polyester D) Silk
3. Sulphur dioxide is \_\_\_\_\_ ( )  
A) Basic oxide B) Acidic Oxide  
C) neutral D) Dual Oxide
4. The SI unit of pressure is \_\_\_\_\_ ( )  
A)  $\text{Nm}^2$  B)  $\text{Nm}$   
C)  $\text{dynecm}^{-2}$  D)  $\text{Nm}^{-2}$
5. Which of the following is incorrect with respect to image in a plane mirror ( )  
A) image is erect B) Image is real  
C) laterally inverted D) object and image sizes are equal
6. Hoisting a flag is related to ( )  
A) Push B) Pull  
C) Push and pull D) None

7. Sodium metal is stored in ( )  
A) Water  
B) Box  
C) Kerosene  
D) Milk
8. Which of the following letters doesn't suffer lateral inversion ( )  
A) N  
B) O  
C) C  
D) B
9. The correct order of Frictional forces is ( )  
A)  $F_s < F_k < F_r$   
B)  $F_s < F_k > F_r$   
C)  $F_s > F_k > F_r$   
D)  $F_s = F_k = F_r$
10. The percentage of oxygen in human body is ( )  
A) 65%  
B) 18%  
C) 10%  
D) 3%