

FORMATIVE ASSESSMENT -1
PHYSICAL SCIENCE (Chapters 1,2,3,4)

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CLASS: 10

(2020-2021)

Max.Marks: 20

Name of the Student: _____

Roll no: _____ **Time: 45 min**

I) Answer the following questions

6x1/2=3M

1. What is lens formula?
2. When a light ray travel from denser to rarer medium along with the normal
 - a) It bends towards the normal
 - b) It moves away from the normal
 - c) It is an undeviated
3. Write the relation between calorie and joule.
4. What is the SI unit of refractive index?
 - A) m/s
 - B) m/s²
 - C)kg-m/s
 - D) No unit
5. What we call when a line joins the centre of curvature and the pole of a curved surfaces?
6. A solution turns red litmus blue, its p^H is likely to be
 - A) 1
 - B) 4
 - C) 5
 - D) 10

II) Answer the following questions

3x1=3M

7. What is a lens?
8. Define "Refractive index"
9. What happens when an acid or base is mixed with water?

III) Answer the following questions

3x2=6M

10. On what factors does the refractive index of a medium depend?
11. What is a neutralization reaction? Give example
12. Write any two questions to understand difference between convex and concave lens.

IV) Answer the following questions

2x4=8M

13. Explain the procedure of finding specific heat of solid experimentally.
(OR)

How do you verify experimentally that $\sin i / \sin r$ is a constant?

14. Why does tooth decay start when the p^H of mouth is lower than 5.5?
(OR)

Draw ray diagrams for the Convex lens following positions and explain the nature and position of image.

A) Object is placed at C₂

B) Object is placed at F₂