



PHYSICS

BOOKS - BETTER CHOICE PUBLICATION

DIPERSION OF LIGHT

Very Short Answer Type Questions

1. Define dispersive power of a prism.



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2. What is the essential condition for observing a rainbow?



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3. State rayleigh's law of scattering.



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4. Which colour deviates (i) most (ii) least on passing through the prism?



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Short Answer Type Questions

1. The sun appears red at sun rise or sunset, why?



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2. Why does sky appear blue?



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3. What is dispersion of light? Explain it with a diagram. Also explain the cause of dispersion.



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4. State the reason for the following observations recorded from the surface of moon.

sky appears dark and



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Long Answer Type Questions

1. Discuss the phenomenon of refraction of light through a glass prism. Derive the relation: $A + \delta = i + e$, where the symbols have their usual meanings.



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2. Derive the relation, $\mu = \frac{\sin(A + \delta_m) / 2}{\sin A / 2}$

when refraction of light takes place through a

glass prism. here every letter has its usual meaning.



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3. Explain the phenomenon of refraction through prism. Derive the following relation between refractive index and minimum

deviation.
$$\mu = \frac{\sin(A + \delta_m) / 2}{\sin A / 2}$$



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Most Expected Questions

1. What do you mean by dispersion of light?



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2. On what factors does the dispersive power of the material of a prism depend?



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3. Why are danger signals red in colour? Give reason.



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4. Why are the clouds white in colour?



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5. Why is there no dispersion of light refracted through a rectangular glass slab?



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