



## PHYSICS

**BOOKS - BETTER CHOICE PUBLICATION**

### DIFFRACTION OF LIGHT

#### Very Short Answer Type Questions

1. Coloured spectrum is seen,when we look through a muslin cloth.Why?



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2. Does diffraction of light give information about the nature (transverse or longitudinal) of light waves.



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3. What is diffraction of light?



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4. What should be the order of size of obstacle/aperture for diffraction of light?



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5. State the necessary condition for diffraction of light to occur?



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6. Why does sky appear blue?



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## Short Answer Type Questions

1. The resolving power of a telescope depends upon



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2. Distinguish between interference and diffraction?





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



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4. State the necessary condition for diffraction of light to occur?



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5. Distinguish between interference and diffraction?



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6. Give two points of differences between the phenomenon of interference and diffraction.



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**Most Expected Question**

1. Why does the sky appear blue? What will it look like on moon?



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2. Which of the following phenomenon is not common to sound and light waves?



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**Long Answer Type Questions**

1. What is diffraction of light?



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2. What is meant by diffraction ? Explain diffraction at a single slit.



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3. In the diffraction of a single slit experiment, how would the width of and the intensity of



central maximum change,if

visible light of longer wavelength is used?



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4. In the diffraction of a single slit experiment, how would the width of and the intensity of central maximum change,if slit width is halved and



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5. What is diffraction of light?



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## Numerical Problem

1. A concave lens of focal length 15cm forms an image 10 cm from the lens. How far is the object placed from the lens? Draw ray diagram.



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