

Diffraction Grating Experiment Viva Questions With Answers

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Q.What is diffraction? A.The process by which a beam of light or other system of waves is spread out as a result of passing through a narrow aperture or across an edge, typically accompanied by interference between the wave forms produced. Q.What is diffraction grating? A.It is an optically flat glass plate on which large...

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Diffraction Grating. 1) Define Diffraction? Ans: The phenomenon of bending of light waves around the edges of obstacles and their spreading into the geometrical shadow of the obstacle is called diffraction of light. 2) Mention the two types of diffraction? Ans: i) Fresnel diffraction. ii) Fraunhofer diffraction.

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Page 3/5. Get Free Viva Questions And Answers Diffraction Grating Experiment. or decreased. 3-If instead of single wavelength, white light or multiple frequencies are used, what would you expect As a change in diffraction pattern. 4-Why diffraction maxima are having different intensities.

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x 2 h This is the angle of of the first order diffraction of red light by the CD acting as a reflection diffraction grating. The tracks on a CD are like the slits on a diffraction grating. Using the angle calculated in Q6 and the wavelength of red light of 6.5×10^{-7} m the separation of the tracks, d, can be calculated.

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Plane Transmission Grating: What is a plane transmission grating? What is reflection grating? Define grating Element. What is the effect of increasing the number lines per cm of the grating on the diffraction pattern? What type of grating is used in the experiment? Distinguish between a grating and prismatic spectra.

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Viva Questions And Answers Diffraction Grating Experiment
Diffraction grating explanation with Theory Sound is propagated in the form of waves. Sound produced in an adjoining room reaches us after bending round the edges of the walls. Similarly, waves on the surface of water also bend round the edges of an obstacle and spread into the region behind it.

Diffraction grating explanation with Theory
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