

## e-Edge Education Centre, www.eeeclasses.info

Time	e- 1hr Class XII A & M Subject Physics	M.M-27
1.	What are Polaroids? Write some of its uses.	[2]
2.	State and derive Brewster's law	[2]
3.	State laws of photoelectric emission. Establish Einstein photoel	ectric relation
	Explain the laws of photoelectric emission on the basis of this relati	ion. [3]
4.	Explain the terms: stopping potential and threshold frequency i	n photoelectric
	emission. Draw a graph showing the variation of stopping	potential with
	frequency of incident light in relation to photoelectric effect.	[3]
5.	Plot a graph showing the variation of photoelectric current with a	anode potential
	for two light beams of same wavelength but different intensity.	[3]
6.	What is meant by fringe width .Derive an expression for fringe wid	th in
	interference pattern?	[3]
7.	Derive lens maker's formula for a thin a convex lens.	[3]
8.	State and prove prism formula	[3]
9.	With the help of a ray diagram, explain the formation of the image	in a compound
	microscope. Derive an expression for its magnifying power.	How can its
	magnifying power. How can its magnifying power be increased?	[5]