

	aperture. Find the radius of the 100th half period element and the area of a half period zone.	
(b)	Explain Huygens's principle.	6
Q-5	Attempt all questions	(14)
(a)	Explain the diffraction phenomenon of light. What is the difference between interference and diffraction?	7
(b)	State and Explain superposition of two perpendicular harmonic oscillations.	7
Q-6	Attempt all questions	(14)
(a)	What is Lissajous figure? Describe.	6
(b)	Explain the formation of fringes by Michelson's interferometer with neat and clean figure.	8
Q-7	Attempt all questions	(14)
(a)	Explain Fresnel Biprism with suitable figure.	7
(b)	Explain image formation in Lloyd's Mirror.	7
Q-8	Attempt all questions	(14)
(a)	Define types of interference and give condition of constructive and destructive interference in term of phase and path difference.	7
(b)	Explain the Young double slit experiment briefly.	7

