OPTICS AND LASERS - II

Time	: Thi	hree Hours]	m Marks: 75	2
		the second consistence in all Select and question, each from Section A. B. C. and	1 D Q. No. 9	9
1	Secti	tion E is compulsory, attempt any five parts from it. Use of Non-programmable	calculator i	S
		aved		
		Section · A		3
1	Desc	scribe the principle and working of Febry Perot inerferometer. How this interfero	meter is use	ď,
1.	to de	1-1	ı	5
2.	(a)	What is Non-reflecting film and how is it achieved?	a frant	5
۷.	(b)		e from.	2
	(c)	What are coherent sources of light? How are they realised in primare		٦
	(0)			Q
	(2)	What is Half-period zones? On its basis, explain propagation of light.		7
3.	(a) (b)	What is Half-period zones? On its dash, explain program of the difference between a Convex lens and a Zone plate? What is the difference between a Convex lens and a Zone plate? What is the difference between a Convex lens and a Zone plate?	rised light 2.1	ιń
2	- S - C	What is the difference between a Convex lens and a Zone plate. What is the difference between a Convex lens and a Zone plate. How will you analyse Plane Polarised, Circularly polarised and Elliptically polar How will you analyse Plane Polarised, Circularly polarised and Elliptically polarised.	nisca rigina	Š
4.	(a) (b)	Distinguish hetween the riesher's and ridding		
	.(0)	Section: C	ontaneous ar	nd
	(0)	What are Einstein co-effcients? Derive a relation between Eienstein's spo	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	10
5.	(a)	* 1-4-4 0001CC1OH (**10C1111A)	P. F. Sear Co.	5
3.00	(h)	TI TOUR RELIEF WIGHT		10
701	(b)	Explain Doppler broadening. Explain Doppler broadening. Explain Doppler broadening.	reported a	5
6.	(a)	Explain Doppler broadening. What is Population inversion? How is it obtained?	si J	

