

Reg.					
No.					

DEPARTMENT OF SCIENCES, IV SEMESTER M.Sc (Physics) END SEMESTER EXAMINATIONS, JULY 2020

SUBJECT [CODE PHY 5011] (REVISED CREDIT SYSTEM-2017)

I ime:	2 Hours		Date:10-07-20)20	MAX. MA	RKS: 25
Note:	(i) Answer AL l	L questions				
	(ii) Draw diagra	ms, and write	equations where	ever necessary		
1. a)	Describe a met	hod of obtain	ing phase-conjug	gation? What are	its applicat	ions? (5)
2. a)	-	-	lulation affects t ena. Expalin with		of light? Di	scuss the (3)
b)	Discuss the adv mode (for KDF	_	ectrooptic effect ag examples	in transverse m	ode over lor	ngitudinal (2)
3.			e of an optical pa d the width of ea		ier. Obtain t	he typical (5)
4. a) b)	communication mention their d	n, explain the etection rang	ous optical ser working princip es and response t an optical recei	ole of p-i-n photime.		-
5. a)	Explain the wor	rking principl	e of streak camer	a as a detector o	f femtosecoi	
b)	Explain briely	the method of	generation of su	ıb-picosecond el	ectrical puls	(3) ses. (2)