7			Entry Numbe	r:		ELL212 Mir	ior1 (e de Lace
	What do you under	stand by the ter	m 'collisional t	oroadening' of a li	ght source?	[2x10=20 ma	rks]	e de la companya de l
	Collisional	broadening	of liger	course	means	the bea		
	Or light i	miu ger	broadened	nowever	collimate	d the	m ben	
(This can be a	due to	causion	of photon	which	muse In		
	of light spot				19-3 unbro	adena.	oden	٣٩
	in an optical fiber, o	does all the FM	energy get cor	ofined in the core	- broadene	d d	1	
	<u> </u>	- Sapiaiii.					irply	
	*	Je role,	Since	EM womes	nopagate	through		
/	2) enegy get	gets unt	enally ref	feeted at	bounday	hence E	M	
(2) enegy get	s carpiem	ed in core	Also the	u is	wu in for	<i></i>	
	m evantescer	t waves	though w	out ?				
	Why do humans find	St it is	bent sharp	Then em n	ave can	but bou	uday	
Fa	Why do humans find	l greenery so p	leasing and rel	axing? EM W	ave can	escape.	- Garage	
	Minum ege	s are mo	sensin	ve 10 gree	m adous	and it		
(can be die			9		re Soothu	•	
(b human	eyes. Also There	waveleng	the see ties	in mid	de if w	writed	
	The phase velocity	of light in a w	vaveguide can	he larger than 'c	Dogs this	violate the en	ncial	
	theory of relativity?	Give reason.					.Clai	
j.			0	nt ma w	0 .			
	greater than		this does	not violat	te theo	oy of red	atinh	J
(O CP =	<u></u>			Same Same			
	d.	υ2- BL				The state of the s		
	Can you store X-ray	and gamma ra	ys in a resonan	t cavity? Give rea	son.			
	Ne K =	102 + 1 kn + k	y+ K22 (Kn	$=\frac{\Pi \Omega}{\alpha}$) No.	D .			
1	O No me					aye in	ı	
'	neconant (austy becau	4 there	emet a	maxima	begueny	ku	
	If your friend told y	ried was	u they	camo to	stitled.	U		
	delta function, would	l you agree with	h him/her? Giv	e reason.			out a	
	Yes it a	uit de con	sidered a	a della	a funci	tion like		
-	£	(n)= 1E.	(K) 8 1.	marine I ma	dim			
	(0)			medium me	2			
	<u> </u>			0	×			
	Since delta	function	assumes	mar at a	particular	14 or	at	
	Since delta partiadas 't'	ist mill	have now	c kens van	we - 70	any may	<i></i>	
	is consider	ed then	ar our	n places	speed	of wave	-	
*	will have	undefined	speed					
Sc	anned by CamSc		. The second distribution of	and the second of the Second	· AND SHAPE	The second second		

