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Physics 1. The slit width, when a light of wavelength 6500Å is incident on a slit, if first minima for red light is at 300 1×10-6m 5.2×10-6m 1.3×10-6m c) 2.6×10-6m 2. Newton's rings are observed by keeping a spherical surface of 100cm radius on a plane glass (late.) The wave length of light used is 5880Å. If the diameter of the 15th bright ring is 0.59cm, the diameter of the 5th ring is a) 0.226cm b) 0.446cm C) 0.336cm Ø) 0.556cm 3. The resulting intensity after interference of two coherent waves represented by y1a cost and y2a2cos2t will be a) a1-a2 b) a1+a2 c) a12-a22 a12+a22 4.In a young's experiment, one of the slit is covered with a transparent sheet of thickness 3.6×10−3cm due to which position of central fringe shifts to a position originally occupied by 30th bright fringe. The refractive index of the sheet, if λ =6000Å is 1.5 1.2 b) 1.7 a) 5.In young's double slit experiment with monochromatic light of wave length 600nm, the distance between slits is 10-3m. For changing fringe width by 3×10-5m the screen is moved away from the slits by 5cm (6) the screen is moved by 5cm towards the slits the screen is moved by 3cm towards the slits both (a) and (b) are correct 6. When two coherent monochromatic light beams of intensities, I and 4I are superimposed, what are the maximum and minimum possible intensities in the resulting bearins? 5I and I b) 5I and 3I 9I and I d) 9I and (C) 31 7. In young's double slit experiment when violet light of waxe length 4358Å is used, then 84 fringes are seen in the field of view, but when sodium light of certain wave length is used, then 62 fringes are seen in the field of view, the wave length of sodium lightis a) 6893Å b) 5904Â 🖒 5523Å d) 6429Å 8.In an interference pattern the position of zeroth order maxima is 4.8mm from a certain point P on the screen. The fringe width is 0.2mm. The position of second maxima from point P is 5 mm/c) 40 mm d) 5.1 mm b) 5.2 mm 9.If young's double slit experiment is performed in water, the fringe width will decreases b) the fringe width will increase the fringe width will remain unchanged d) there will be no fringe 10. The first diffraction minimum due to single slit diffraction is θ, for a light of wave length 5000Å. If the width of the slit is $1\times10-4$ cm, then the value of θ is 300 150 11.2 non-coherent sources emit light beam of intensities I and 4I. The maximum and minimum intensities in the resulting beam are a) 9I and 31 9I and 5I c) 5I and I d) 5I and 3I 12. Light propagates 2cm distance in glass of refractive index 1.5 in time t0. In the same time t0, light propagates a distance of 2.25 cm in a medium. The refractive index of the medium is 3/2 none of these 13. Two wave fronts are emitted from coherent sources of path difference between them is 2.1 micron. Face difference between the wave fronts at that point is 7.692 π. Wave length of light emitted by source will be 5400Å c) 5892Å 5386Å b) 5460Å d) 14 A spherical air bubble in water will act as convex lens b) concave lens c) glass plate d) >plano convex lens A concave lens can be used as a simple magnifier if the object lies

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a) 2f	d)	beyond	f at 2f	b)		within th	ne focal	length	c)	1	betwee	n f and
16.For a material			ism the a	angle of	minimur	n deviatio	on is 300	0. Then	the refrac	ctive inde	ex of the	e d
a)	·	1/2	b)		2	c)		2	d)		22	$((\))$
17.Lumi	nous flu	ıx is exp	ressed ii	n							((\sim
a)		Lumen	b)		Candel	a	c)		Weber	d)	^ .	/Lue))
18.Light	travels	through	a glass	plate of	thicknes	ss d. If n i	is the re	fractive	index of	glass and	მ⁄ç∕is th	ie
velocity	of light	ın vacuu	ım, the ti	me take	n by ligr	it to trave	el throug	h the gl	ass plate	IS /		\rightarrow
a)		n/cd	b)		nc/d	c)		nd/c	d)	(4	ndc	
19.What	t is the r		ation wh	en an ol		laced at	2f of a c	convex r	mirror			
a)		1/3	b)		2/3	c)		1	d)		3/12	
				o a heig	ht of 12.	5 cm. Th	e appar	ent dept	th of a ne	edle at the	e botto	om of the
tank is (n of wat		•			,		40.0	&		→	
a)		12.5 cm			9.4 cm			16.6 cm			11.17 c	
		r water ı	n a lake	is viewir	ng a boy	standing	on the	bank of	the take.	Then to	r him th	e boy
appears	to be	-14	L .\		4-11	- \					٠.١	
a)	16 am	shorter	D)		taller	c)		or the s	ame size	;	d)	
	16 cm	rror plac	od at a c	diatanaa	of 20 or	n from o	oondlo f	iormo a	virtual im	aga at th	o como	nocition
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convex		by a piai	ie mimor	at a dis	tance of	12 CIII II	om me	Carriule.	What is t	ne iocai	iengin c	oi tile
a)	IIIIII I I I	20 cm	h)		15 cm	c)	0	10 om	۹)		5 cm	
	n liaht tr		,	dium to		that rem				,	J CIII	
a)	ii ligiit ti	speed		didili to	wave le		c	allejjeu i	frequen	cv (d)	
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			cone is '	100 cm :	and mad	ınificatiok	ais 1/9 7	, The foca	ıl length o	of the ohi	ective a	and eve
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•	C											
a)		90 cm a	and 10 c	m	b)	\sim	85 cm a	and 1 cn	nc)	9	95 cm a	and 25
a) cm	d)	90 cm a	and 10 c None of		b) ove <		8)5 cm a	and 1 cn	nc)	(95 cm a	and 25
cm	d) compou		None of	f the abo	ové <							and 25
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34.A concave lens has focal length f. A real ob produces an image	ject place	ed at a di	stance f	in front	of the le	ns from	the pole
a) at infinity b)	at f	c)		at f/2	d)		at 2/5
35. The image formed by a plane mirror is							
a) real and same size as the obje	ectb)		virtual,	same si	ize as the	e object	c/ //
real and magnified d)	none c	of these				(
36. The limit of resolution of the eye is one min			from the	e eve. T	wo pers	ons stan	d with a
lateral separation of 3cms. To see the two pers							
a) 20km b) 15km			10km	d)	,	30km	0
37.In the displacement method of measuring the		enath of a	a convex		ne lenath	of the ii	mages in
the two positions of the lens between the object							
of the object is					120		
a) 6.25 cmb) 1.5 cr	n c)		6 cm	d)		36 cm	
38. The refracting angle of a prism is A and the		e index o			the nrier		2 the
angle of minimum deviation is	TOTIGOTIV	c mack o	i tilo illa		we prise	,11 000 7 02	_,
a) 180-A b) 180-3	Λ ω		90-A	d\	116 1	180-2A	
39.A ray of light travels from vacuum into a me		efractive			ndle of in		
to be twice the angle of refraction. The angle of	f inciden	oo io	iliuex N.	I IVE OIL	igie ulaii	ciuerice	is iouriu
	2cos-		a)\\((c)		∕ 2oin 1:	n d\	
,	200S-	111/2	c)//(2sin-1	nu)	
2sin-1n/2	of a a					t a diata	!h!
40.An object placed at distance 'a' from the foo	cus of a c	onvex lei	18 FORMS	Tis real	image a	t a dista	nce b
from the focus. The focal length of the mirror is		6	, ()	-15		- 1-	
a) ab b) ab	c) .	((a+b2	d)		ab	
41. The distance between a point source of light	it and a s	creen	doubled.	. The int	tensity of	light on	the
screen will be			1)				
a) Four times the original value	b) (nal value	e c)	
two times the original value d)		(one qu	arter the	origina	l value.		
42. From the following which one is used for stu	udyin g (ult	tra violet	light?				
a) prism of crown glass b)) ism o		ass	c)		prism of
quartz d) prism with combination	ncot flinit a	and crow	n glass				
43. Electromagnetic waves are		,					
a) longitudinal waves b)	\leq		rse wav	es	c)		neither
longitudinal nor transverse d)		ary wave					
44.If there are no atmosphere the average ten	perature	on the s	urface of	f the ea	th would	l be	
a) lower b) righe	r c)		same a	s now	d)		00C
45. displacement current was first produced by							
a) Ampereb) Henry	/ c)		Maxwe	II	d)		base
46. Pick out the odd one which has extremely s	hort wav	e length	much sh	orter tha	an that o	f visible	light and
can be emitted from the nucleus of an atom.		•					-
a) UV radiation (b)	beta ra	adiation	c)		y radia	tion	d)
infra red radiation			,		•		,
47. The TV transmission tower in Delhi has a h	eiaht of 2	240m. Th	e distand	ce upto	when the	e broadc	ast can
be received [taking radius of earth to be 6.4×1]	06m 1						
a) 100(km/b) 60 km			55 km	d)		50 km	
48. All the members of electro magnetic spectro		same		/			
a) (requency b)	velocit			wave l	enath	d)	
wave_number	VOICOIL	<i>y</i> 0,		wavo	ongui	u)	
49.Infra red spectrum lies between							
a) radio and micro wave region	b)		visible :	and UV	region	c)	
, ()	D)	IIV and	I X-ray re		region	C)	
	ootiono	UV and	i A-iay II	cgion			
50.Choose the waves relevant to telecommuni		c)		infra ro	hd	d)	
a) ultra violet b)	visible	c)		infra re	ed	d)	
		c)		infra re	ed	d)	
a) ultra violet b)		c)		infra re	ed	d)	