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## **Physics**

1.The slit width, v	when a light of v	wavelength 6500	DÅis incident on	a slit, if first mini	ma for red light i	s at 300		
,	l×10−6m	b)	5.2×10−6m	c)	1.3×10−6m	d)		
2.6×10-6		مامو و مواموه و دارین	ariaal aurfaaa af	100am radius a	n a nlana alaaa .	alata		
2.Newton's rings The wave length								
the 5th ring is								
,	).226cm	b)	0.446cm	c)	0.336cm	d)		
0.556cm								
3. The resulting in	itensity after int	erference of two	coherent waves	s represented by	y1a1cost and y	2a2cos2t		
will be								
,	a1-a2 b)	a1+a2	c)	a12-a22	d)			
a12+a22		£ 41114 1			- -	0		
4.In a young's ex	•							
due to which pos			position original	ly occupied by 3	Oth bright fringe.	The		
refractive index o			,	4.0				
,	l.5 b)	1.2	c)	1.3 d)	1.7			
5.In young's doub				vave length 600	nm, the distance	between		
slits is 10–3m. Fo								
•			the slits by 5cm		the screen is m	loved by		
5cm towards the	,		een is moved by	3cm towards the	e slits d)			
	and (b) are corr							
6.When two cohe					erimposed, what	are the		
maximum and mi								
	5I and I b)	5I and	3I c)	9I and	ld)	9I and		
31								
7.In young's doub								
seen in the field of				ength is used, th	en 62 fringes are	e seen in		
the field of view,								
,	8893Å b)	5904Å	,	5523Å d)	6429Å			
8.In an interferen						on the		
screen. The fring		•						
,	5.1 mm b)	5 mm	c)	40 mm d)	5.2 mn	1		
9.If young's doub								
	he fringe width		b)	the fringe width		c)		
	width will remain		d)	there will be no				
10.The first diffra				for a light of wav	/e length 5000A.	If the		
width of the slit is								
	300 b)	450	c)	600 d)	150			
11.2 non-coherer		light beam of in	tensities I and 4I	. The maximum	and minimum in	tensities		
in the resulting be								
,	I and 3I	b)	9I and 5I	c)	5I and I d)			
5l and 3l								
12.Light propaga						ight		
propagates a dist								
-,	1/3 b)	3/2	c)	8/3 d)		f these		
13.Two wave from								
Face difference b	etween the wa	ve fronts at that	point is $7.692 \text{ m}$	. Wave length of	light emitted by	source		
will be	0				0			
,	5386Å b)	5400Å	c)	5460Å d)	5892Å			
14.A spherical air								
,	convex lens	b)	concave lens	c)	glass plate	d)		
	nvex lens							
15.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)		betwee	n f and
16.For	an equila			ingle of	minimun	n deviation	on is 300	D. Then	the refra	ctive ind	ex of the	e
	al of the p											
a)		1/2	b)		2	c)		2	d)		22	
17.Lum	ninous flu			1								
a)		Lumen			Candela		c)		Weber			Lue
18.Ligh	nt travels	through	a glass	plate of	thicknes	s d. If n	is the re	fractive i	index of	glass an	d c is th	е
velocity	of light i	n vacuu	m, the tii	me take	n by ligh	t to trave	el throug	h the gla	ass plate	is		
a) ·	•	n/cd	b)		nc/d	c)	_	nd/c	d)		ndc	
	at is the r	nagnifica		en an ob	oject is p	laced at	2f of a c	onvex n	nirror			
a)		1/3	b)		2/3	c)		1	d)		3/2	
	nk is fille			a heial	ht of 12.		e appar	ent dept				m of the
	(n of wat			- ag.			o appair	J				
a)	(	12.5 cm			9.4 cm	c)		16.6 cm	nd)		11.17 c	m
	an under			s viewir			n on the			Then fo		
appear		water ii	i a iake i	o vicviii	ig a boy	otarianie	y on the	barik or	uic iaic.	11101110		C DOy
аррсаі	3 10 50	shorter	h)		taller	c)		of the s	ame size		d)	
a)	16 cm	31101161	U)		lanci	<b>C)</b>		or tite 3	arric size		u)	
22 A co		ror plac	od at a d	lictanco	of 20 on	n from a	candla f	orme a v	irtual im	ago at th	o como	nocition
	onvex min											
	formed b	y a piai	ie minor	at a dis	lance of	12 CIII II	om me	candle.	viiat is t	ie iocai	iengin c	or trie
	mirror?	00	<b>L</b> .\		45	-\		10	۵۱\		<b>-</b>	
a)		20 cm	,		15 cm			10 cm			5 cm	
	en light tr							aiterea is				
a)		speed	b)		wave le	ngth	c)		frequen	СУ	d)	
	intensity											
	length o	f a teles	cope is 1	00 cm a	and mag	nificatior	n is 19. T	he foca	l length o	of the ob	jective a	and eye
piece a	ire											
a)		90 cm a	and 10 cr		b)		85 cm a	and 1 cm	ıc)		95 cm a	and 25
cm	d)		None of									
	compou										ices a	
magnif	ication 5.	The over	erall mag	nificatio	n produ	ced by th	ne comp	ound mi	croscope	e is		
a)		2	b)		5	c)		2	d)		50	
26.The	colour o	f the sky	is due to	0								
a)		scatteri	ng of ligh	nt	b)		refraction	n of ligh	nt	c)		
	interfere	ence of I	ight	d)		reflectio	n of ligh	t				
27.An	object is p	olaced a			rom a co	nvex ler	ns of foc	al length	f. The ir	nage wil	I be at	
a)			al and inv		b)				virtual, d			f the
object		- ,	f/2, real		,	d)			l and ere			
	thin con	vex lens					cm are c				cal leng	th of the
	ation is									.,		
a)		25cm	b)		12.5cm	c)		15cm	d)		6cm	
	focal len			lens is n				100111	u)		00111	
20.111c a)	iocai icii	red	b)			c)		blue	d)		green	
	convex le			h 20 cm			vo plano					of oach
	COLIVEX	2115 01 10	cai lengi	.11 20 CH	i is cut o	ut iiito tv	vo piario	-convex	ienses.	1116 1006	ıı ierigiri	or each
part is		10	L-\		00	- \		20	۵۱\		10	
a)		10 cm		41	20 cm		1	30 cm			40 cm	1 41- 6
	minimun	n distand	ce betwe	en the d	object ar	id its rea	ı ımage	tormea i	by a conv	ex iens	or rocal	iength t
is						,					۰.	
a)		1.5 f	b)		f	c)		4 f	d)		3 f	
	refractiv											
a)			f the pris		b) .			n produ	ced by th	e prism	C)	
	intensity					ngth of I						
33.It is	possible				reflectio			els from				
a)		air to wa	ater	b)		air to gla	ass	c)		water to	glass	d)
	glass to	water										

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34.A concave le produces an im		focal len	gth f. A ı	real obje	ect place	d at a di	stance f	in front o	of the len	s from t	he pole
a)	at infinit	ty	b)		at f	c)		at f/2	d)		at 2/f
35. The image f	ormed by	y a plane	e mirror i	is							
a)					tb)		virtual,	same siz	ze as the	object	c)
	d magnif		d)	•	none o		,			•	,
36.The limit of I				ne minut			from the	e eve. T	wo perso	ns stan	d with a
lateral separation											
a)	20km	b)		15km	c)		10km	d)	0, 7. 00	30km	
37.In the displa			of measi			nath of a			e lenath		nages in
the two position											
of the object is	10 01 1110	10110 000		o object	and the	00100111	0 00111 01	101111	Copodiiv	Oly. The	riongar
a)	6.25 cm	nh)		1.5 cm	c)		6 cm	d)		36 cm	
38.The refractir			m ic Δ a			indev of					the
angle of minimu			111 13 A a	iid tiic i	Ciractive	, illucx o	i tile illa	ichai oi	uic piisii	1 001 7 12	.,
a)	180-A			180-3A	c)		90-A	d)		180-2A	
39.A ray of ligh			euum inte			afractive			ale of inc		
							IIIUEX II.	THE and	gie di ilio	idelice i	S IOUIIU
to be twice the				iligie oi			۵)		Ooin 1n	۸۱)	
a)	cos-1n	12	b)		2cos-1	11/2	c)		2sin-1n	iu)	
2sin-1		diatanaa	la! fram	tha faar	o of o o	anyoy lor	a forma	ito rool i	maga at	a diatar	oo lb!
40.An object pla					s or a co	Jiivex iei	is ionns	its rear i	mage at	a distar	ice b
from the focus.	_	-	or the m		- \		0	-1\			
a)	ab	b)	4	ab	c)		a+b2	d)		ab	41
41.The distance	e betwee	en a poin	t source	or light	and a so	creen is o	doubled.	i ne inte	ensity of	light on	tne
screen will be										,	
a)		nes the o			b)				nal value	C)	
	es the or			d)			arter the	original	value.		
42.From the fol					lying ulti						
a)	prism of	f crown		b)			f flint gla	ISS	c)		prism of
quartz d)			ith comb	oination	of flint a	nd crowr	n glass				
43.Electromagr											
a)		dinal wav		b)			rse wave	es	c)		neither
longitudinal nor	transvei	rse	d)		station	ary wave	S				
44.If there are r			ne avera			on the su	urface of	the ear	th would	be	
a)	lower	b)		higher	c)		same a	s now	d)		00C
45.displacemer			st produc								
a)	Ampere			Henry			Maxwe		d)		base
46.Pick out the	odd one	which h	as extre	mely sh	ort wave	e length r	nuch sh	orter tha	n that of	visible I	ight and
can be emitted	from the	nucleus	of an at	tom.							
a)	UV radi	ation	b)		beta ra	diation	c)		γ radiati	ion	d)
infra re	d radiation	on									
47.The TV tran	smission	tower ir	n Delhi h	as a hei	ght of 2	40m. The	e distand	e upto v	vhen the	broadca	ast can
be received [tal	king radii	us of ear	th to be	6.4×106	Sm ]						
a)	100 km	b)		60 km	c)		55 km	d)		50 km	
48.All the mem	bers of e	lectro m	agnetic:	spectrur	n ĥave s	same		,			
a)	frequen		b)	•	velocity			wave le	ength	d)	
wave n	•	•	,		•	•			Ū	,	
49.Infra red spe	ectrum lie	es betwe	en								
a) '		nd micro		eaion	b)		visible a	and UV i	reaion	c)	
	vave and			d)	,	UV and	X-ray re		J	,	
50.Choose the				,	ations		,	J = 1			
a)	ultra vic		b)		visible	c)		infra re	d	d)	
micro v			,			,				,	