Physics

	ich a light of	wavelength t		Åis incident on a	a slit, it tirst mi	nima for red	d light is	at 300
,	10−6m	b)	į	5.2×10−6m	c)	1.3×10−	6m	d)
2.6×10-6n		lraanina a	anh a	wiaal aumfaaa af	100000 2000	on o nlono	~looo	lata
2.Newton's rings a The wave length of								
the 5th ring is								
,	226cm	b)	(0.446cm	c)	0.336cm	1	d)
0.556cm								
3. The resulting inte	ensity after int	terference of	two	coherent waves	represented	by y1a1cos	t and y2	2a2cos2t
will be								
,	−a2 b)	a1+	-a2 (c)	a12-a22	d)		
a12+a22				1 10 0			0 0 40	•
4.In a young's expe								
due to which positi			to a p	osition originall	y occupied by	30th bright	fringe.	The
refractive index of								
a) 1.5	,	1.2		c)	1.3 d)		1.7	
5.In young's double					vave length 60	00nm, the di	istance	between
slits is 10-3m. For								
•				he slits by 5cm		the scre		oved by
5cm towards the sl	,		scree	en is moved by	3cm towards	the slits	d)	
	ıd (b) are corı							
6.When two cohere						perimposed	l, what a	are the
maximum and min								
	and I b)	5I a	and 3I	l c)	9I an	d I d)		9I and
31					_			
7.In young's double								
seen in the field of					ength is used,	then 62 frin	ges are	seen in
the field of view, th	e wave lengtl	h of sodium l	iaht i	^				
					_		_	
a) 68	93Å b)	590)ÅÅ (c)	5523Å d)		6429Å	
a) 68 8.In an interference	93Å b) e pattern the l	590 position of ze)4Å (eroth	c) order maxima i	s 4.8mm from	a certain po	-	n the
a) 68 8.In an interference screen. The fringe	93Å b) e pattern the width is 0.2m	590 position of ze)4Å (eroth	c) order maxima i	s 4.8mm from na from point l	a certain po ⊃ is	oint P o	
a) 68 8.In an interference screen. The fringe a) 5.	93Å b) e pattern the width is 0.2m 1 mm b)	590 position of ze im. The posit 5 m	04Å o eroth tion o nm o	c) order maxima i of second maxin c)	s 4.8mm from	a certain po ⊃ is	-	
a) 68 8.In an interference screen. The fringe a) 5.' 9.If young's double	93Å b) e pattern the point of the pattern the point of the pattern	590 position of ze Im. The posit 5 m ent is perform	04Å (eroth tion o nm (ened in	c) order maxima i of second maxin c)	s 4.8mm from na from point I 40 mm d)	a certain po Pis	oint P o	
a) 68 8.In an interference screen. The fringe a) 5.1 9.If young's double a) the	93Å b) e pattern the point is 0.2m from b) e slit experiment in the point is 0.2m from b)	590 position of ze m. The posit 5 m ent is perform will decreas	04Å deroth tion on m dened in es l	c) order maxima i of second maxin c)	s 4.8mm from na from point I 40 mm d) the fringe wic	a certain po is Ith will incre	oint P o	
a) 68 8.In an interference screen. The fringe a) 5.' 9.If young's double a) the fringe was a simple of	93Å b) e pattern the point is 0.2m f mm b) e slit experime e fringe width width will rem	590 position of zeam. The position 5 ment is perform will decreas ain unchang	odå o eroth tion o nm o ned ir es l ed o	c) order maxima i of second maxin c) n water, b) d)	s 4.8mm from na from point I 40 mm d) the fringe wid there will be i	a certain po is Ith will incre no fringe	oint P o 5.2 mm	c)
a) 68 8.In an interference screen. The fringe a) 5.7 9.If young's double a) the fringe value. The first diffract	93Å b) e pattern the point is 0.2m 1 mm b) e slit experime e fringe width width will rem ion minimum	590 position of zeinm. The position 5 ment is perform will decreas ain unchang due to single	olah deroth tion on med in es lang ed de	c) order maxima i of second maxin c) n water, b) d) diffraction is θ,	s 4.8mm from na from point I 40 mm d) the fringe wid there will be i	a certain po is Ith will incre no fringe	oint P o 5.2 mm	c)
a) 68 8.In an interference screen. The fringe a) 5.' 9.If young's double a) the fringe was a simple of	93Å b) e pattern the point is 0.2m 1 mm b) e slit experime e fringe width width will rem ion minimum	590 position of zeinm. The position 5 ment is perform will decreas ain unchang due to single	olah deroth tion on med in es lang ed de	c) order maxima i of second maxin c) n water, b) d) diffraction is θ,	s 4.8mm from na from point I 40 mm d) the fringe wid there will be it for a light of w	a certain po is Ith will incre no fringe	oint P o 5.2 mm	c)
a) 68 8.In an interference screen. The fringe a) 5.7 9.If young's double a) the fringe via 10. The first diffract width of the slit is 1 a) 30	93Å b) e pattern the pwidth is 0.2m 1 mm b) e slit experime e fringe width width will rem ion minimum 1×10-4cm, the 0 b)	590 position of zer im. The position 5 m ent is perform will decreas ain unchang due to single en the value 450	PAÅ (eroth tion on the control of t	c) order maxima i of second maxin c) n water, b) d) diffraction is θ, is c)	s 4.8mm from na from point I 40 mm d) the fringe wic there will be i for a light of w 600 d)	a certain por is Ith will incre no fringe ave length	oint P o 5.2 mm ease 5000Å.	c) If the
a) 68 8.In an interference screen. The fringe a) 5.7 9.If young's double a) the fringe value of the fringe width of the slit is 1	93Å b) e pattern the pwidth is 0.2m 1 mm b) e slit experime e fringe width width will rem ion minimum 1×10-4cm, the 0 b)	590 position of zer im. The position 5 m ent is perform will decreas ain unchang due to single en the value 450	PAÅ (eroth tion on the control of t	c) order maxima i of second maxin c) n water, b) d) diffraction is θ, is c)	s 4.8mm from na from point I 40 mm d) the fringe wic there will be i for a light of w 600 d)	a certain por is Ith will incre no fringe ave length	oint P o 5.2 mm ease 5000Å.	c) If the
a) 68 8.In an interference screen. The fringe a) 5.7 9.If young's double a) the fringe via 10. The first diffract width of the slit is 1 a) 30	93Å b) e pattern the point of the pattern the point of the pattern the point of the pattern the patter	590 position of zer im. The position 5 m ent is perform will decreas ain unchang due to single en the value 450	PAÅ (eroth tion on the control of t	c) order maxima i of second maxin c) n water, b) d) diffraction is θ, is c)	s 4.8mm from na from point I 40 mm d) the fringe wic there will be i for a light of w 600 d)	a certain por is Ith will incre no fringe ave length	oint P o 5.2 mm ease 5000Å.	c) If the
a) 68 8.In an interference screen. The fringe a) 5.7 9.If young's double a) the fringe via the fringe via 10. The first diffract width of the slit is 1 a) 30 11.2 non-coherent in the resulting bear	93Å b) e pattern the point of the pattern the point of the pattern the point of the pattern the patter	590 position of zer im. The position 5 m ent is perform will decreas ain unchang due to single en the value 450	PAÅ (eroth tion on the control of θ in the control of θ in the control of the co	c) order maxima i of second maxin c) n water, b) d) diffraction is θ, is c)	s 4.8mm from na from point I 40 mm d) the fringe wic there will be i for a light of w 600 d)	a certain por is Ith will incre no fringe ave length	oint P o 5.2 mm ase 5000Å. 150 mum int	c) If the
a) 68 8.In an interference screen. The fringe a) 5.7 9.If young's double a) the fringe via 10.The first diffract width of the slit is 1 a) 30 11.2 non-coherent in the resulting bear	93Å b) e pattern the point is 0.2m 1 mm b) e slit experime e fringe width width will rem ion minimum ×10-4cm, the 0 b) sources emit am are	590 position of zeim. The position 5 ment is perform will decreas ain unchang due to single en the value 450 light beam of	PAÅ (eroth tion on the control of θ in the control of θ in the control of the co	c) order maxima i of second maxin c) n water, b) d) diffraction is 0, is c) ensities I and 4I	s 4.8mm from na from point I 40 mm d) the fringe wid there will be i for a light of w 600 d) The maximum	a certain por is Ith will incre no fringe ave length in the image is and minir	oint P o 5.2 mm ase 5000Å. 150 mum int	c) If the
a) 68 8.In an interference screen. The fringe a) 5.7 9.If young's double a) the fringe via the fringe via 10. The first diffract width of the slit is 1 a) 30 11.2 non-coherent in the resulting bear a) 9I	93Å b) e pattern the point is 0.2m 1 mm b) e slit experime e fringe width width will rem ion minimum 1×10–4cm, the 0 b) sources emit am are and 3I	590 position of zer im. The position 5 m ent is perform will decreas ain unchang due to single en the value 450 light beam of	PAÅ (eroth tion on the control of θ in the control of θ in the control of the co	c) order maxima i of second maxin c) n water, b) d) diffraction is 0, is c) ensities I and 4I	s 4.8mm from na from point I 40 mm d) the fringe wid there will be i for a light of w 600 d) . The maximum	a certain por is Ith will incre no fringe ave length some and minir	oint P o 5.2 mm ease 5000Å. 150 mum int d)	c) If the ensities
a) 68 8.In an interference screen. The fringe a) 5.7 9.If young's double a) the fringe of the fringe of the fringe of the slit is 1 a) 30 11.2 non-coherent in the resulting bear a) 9I 5I and 3I	93Å b) e pattern the point is 0.2m 1 mm b) e slit experime e fringe width width will rem ion minimum 1×10-4cm, the 0 b) sources emit am are and 31	position of zero. The	PAÅ (eroth tion on the control of θ in the control of θ in the control of the co	c) order maxima i of second maxin c) n water, b) d) diffraction is 0, is c) ensities I and 4I 9I and 5I active index 1.5	s 4.8mm from ha from point I 40 mm d) the fringe wid there will be a for a light of w 600 d) The maximum c) in time to. In	a certain por is Ith will incre no fringe ave length is m and minir 5I and I is	oint P o 5.2 mm ease 5000Å. 150 mum int d)	c) If the ensities
a) 68 8.In an interference screen. The fringe a) 5.7 9.If young's double a) the fringe of the fringe of the fringe of the fringe of the slit is 1 a) 30 11.2 non-coherent in the resulting bear a) 9I 5I and 3I 12.Light propagate	93Å b) e pattern the point is 0.2m 1 mm b) e slit experime e fringe width width will rem ion minimum 1×10-4cm, the 0 b) sources emit am are and 3I es 2cm distance of 2.25 ci	position of zero. The	of refra	c) order maxima i of second maxin c) n water, b) d) diffraction is 0, is c) ensities I and 4I 9I and 5I active index 1.5	s 4.8mm from ha from point I 40 mm d) the fringe wid there will be a for a light of w 600 d) The maximum c) in time to. In	a certain por is Ith will incre no fringe ave length in and minir 5I and I will the same tirkium is	oint P o 5.2 mm ease 5000Å. 150 mum int d)	c) If the ensities
a) 68 8.In an interference screen. The fringe a) 5.7 9.If young's double a) the fringe of the fringe	93Å b) e pattern the point width is 0.2m 1 mm b) e slit experime e fringe width width will rem ion minimum 1×10-4cm, the 0 b) sources emit am are and 3I es 2cm distance nce of 2.25 cm b)	position of zerom. The position of zerom. The position of zerom. The position of zerom is perform will decreas ain unchang due to single en the value 450 light beam of the position of the po	PAÅ (eroth tion on the control of θ in the control of the control	c) order maxima i of second maxin c) n water, b) d) diffraction is 0, is c) ensities I and 4I 9I and 5I active index 1.5 he refractive ind c)	s 4.8mm from ha from point I 40 mm d) the fringe wid there will be a for a light of w 600 d) The maximum c) in time to. In dex of the med 8/3 d)	a certain por is Ith will incre no fringe ave length in and minir 5I and I with the same tir lium is	oint P of 5.2 mm sase 5000Å. 150 mum int d) me t0, li none of	c) If the ensities ght
a) 68 8.In an interference screen. The fringe a) 5.7 9.If young's double a) the fringe of the fringe	93Å b) e pattern the point width is 0.2m 1 mm b) e slit experime e fringe width width will rem ion minimum 1×10-4cm, the 0 b) sources emit am are and 3I es 2cm distance nce of 2.25 cm s are emitted	position of zerom. The position of zerom. The position of zerom. The position of zerom is perform will decreas ain unchang due to single en the value 450 light beam of the position of the position of the position of the position of zerom cohere in glass of the position of zerom cohere in glass of the position of zerom cohere in glass of zerom c	PAÅ (eroth tion on the control of t	c) order maxima i order maxima i of second maxim c) n water, b) d) diffraction is 0, is c) ensities I and 4I ensitive index 1.5 he refractive ind c) urces of path di	s 4.8mm from ha from point I 40 mm d) the fringe wid there will be i for a light of w 600 d) . The maximum c) in time t0. In dex of the med 8/3 d) fference betw	a certain por is Ith will incre no fringe ave length is mand mining 51 and 1 the same tirdium is een them is	oint P of 5.2 mm sase 5000Å. 150 mum int d) me t0, line to san 2.1 mice of 5.2.1 mice	c) If the ensities ght f these cron.
a) 68 8.In an interference screen. The fringe a) 5.7 9.If young's double a) the fringe of the fringe	93Å b) e pattern the point width is 0.2m 1 mm b) e slit experime e fringe width width will rem ion minimum 1×10-4cm, the 0 b) sources emit am are and 3I es 2cm distance nce of 2.25 cm s are emitted	position of zerom. The position of zerom. The position of zerom. The position of zerom is perform will decreas ain unchang due to single en the value 450 light beam of the position of the position of the position of the position of zerom cohere in glass of the position of zerom cohere in glass of the position of zerom cohere in glass of zerom c	PAÅ (eroth tion on the control of t	c) order maxima i order maxima i of second maxim c) n water, b) d) diffraction is 0, is c) ensities I and 4I ensitive index 1.5 he refractive ind c) urces of path di	s 4.8mm from ha from point I 40 mm d) the fringe wid there will be i for a light of w 600 d) . The maximum c) in time t0. In dex of the med 8/3 d) fference betw	a certain por is Ith will incre no fringe ave length is mand mining 51 and 1 the same tirdium is een them is	oint P of 5.2 mm sase 5000Å. 150 mum int d) me t0, line to san 2.1 mice of 5.2.1 mice	c) If the ensities ght f these cron.
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a) 68 8.In an interference screen. The fringe a) 5.7 9.If young's double a) the fringe of the fringe	93Å b) e pattern the point width is 0.2m 1 mm b) e slit experime e fringe width width will rem ion minimum 1×10–4cm, the 0 b) sources emit am are and 3I es 2cm distance nce of 2.25 cm s are emitted tween the wa 86Å b)	position of zerom. The position of zerom. The position of zerom. The position of zerom. The position of zerom will decreas ain unchang due to single en the value 450 light beam of the position of zerom in a medium 3/2 from coherent everom the sat the football.	PAÅ (eroth tion on the context of θ in the co	c) order maxima i order maxima i of second maxim c) n water, b) diffraction is θ, is c) ensities I and 4I active index 1.5 he refractive ind c) urces of path di point is 7.692 π.	s 4.8mm from ha from point I 40 mm d) the fringe wice there will be refor a light of we 600 d) The maximum c) in time to. In the dex of the med 8/3 d) fference betw Wave length	a certain por is Ith will incre no fringe ave length some same tire than the same tire tire tire them is of light emit	oint P of 5.2 mm sase 5000Å. 150 mum int d) me t0, li none of 5.2.1 mid tted by 5.5892Å	c) If the ensities ght f these cron.
a) 68 8.In an interference screen. The fringe a) 5. 9.If young's double a) the fringe of the fringe	93Å b) e pattern the point width is 0.2m 1 mm b) e slit experiment of the point width will remain ion minimum with a 10-4cm, the contract of b) e sources emitted and 31 es 2cm distant once of 2.25 cm as a b) es are emitted tween the water w	position of zerm. The	PAÅ (eroth tion on the context of θ in the co	c) order maxima i of second maxim c) n water, b) d) diffraction is θ, is c) ensities I and 4I active index 1.5 he refractive ind c) urces of path di point is 7.692 π.	s 4.8mm from ha from point I 40 mm d) the fringe wid there will be a for a light of w 600 d) The maximum c) in time t0. In dex of the med 8/3 d) fference betw Wave length 5460Å d)	a certain por is Ith will incre no fringe ave length some some tire the same tire tire is of light emited.	oint P of 5.2 mm sase 5000Å. 150 mum int d) me t0, li none of 5.2.1 mid tted by 5.5892Å	c) If the ensities ght f these cron. source

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	C)		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	L .\		45	-\		10	۵۱\		-	
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 ove	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										

	iens nas focal i	ength f. A	real obje	ect place	ed at a di	stance f	in front (of the len	is from t	ne pole
produces an ir	•									
a)	at infinity	b)		at f	c)		at f/2	d)		at 2/f
•	formed by a pla									
a)	real and sam					virtual,	same siz	ze as the	object	c)
	nd magnified	d)		none o		_				
	resolution of th									
	ion of 3cms. To	see the t			resolved			e, x shοι		oout
a)	20km b)		15km			10km	,		30km	
	acement metho									
	ns of the lens b	etween th	ie object	and the	screen i	s 9cm aı	nd 4cm ı	respectiv	ely. The	length
of the object is										
a)	6.25 cmb)		1.5 cm			6 cm	d)		36 cm	
	ing angle of a p		and the r	efractive	e index o	f the ma	terial of	the prism	cot A/2	the the
•	num deviation is									
a)	180-A b)		180-3A			90-A	d)		180-2A	
	nt travels from v					index n.	The and	gle of inc	idence i	s found
	angle of refrac		angle of							
a)	cos-1n/2	b)		2cos-1	In/2	c)		2sin-1n	ıd)	
2sin-				_		_				
	laced at distan			is of a co	onvex ler	ns forms	its real i	mage at	a distar	ice 'b'
	. The focal leng	gth of the r								
a)	ab b)		ab	c) .		a+b2	d)		ab	
	ce between a po	oint source	e of light	and a so	creen is	doubled.	The inte	ensity of	light on	the
screen will be									,	
a)	Four times th			b)				nal value	C)	
	nes the original				one qua		original	value.		
	ollowing which o							,		
a)	prism of crow				prism o		ISS	c)		prism of
quartz d)		n with com	bination	of flint a	ind crowi	n glass				
	netic waves are							,		***
a)	longitudinal w	vaves	b)			rse wave	es	c)		neither
longitudinal no					ary wave					
	no atmosphere	e the avera			on the si				be	000
a)	lower b)	.	higher	C)		same a	s now	d)		00C
	ent current was	first produ		- \		N.4		-11		h
a)	Ampereb)		Henry			Maxwel		d)		base
	e odd one which			ort wave	e length i	nuch sh	orter tha	in that of	visible i	ignt and
	d from the nucle			h - 4	ما داد المادات	-1				٦١/
•	UV radiation	D)		beta ra	diation	C)		γ radiati	on	d)
	ed radiation	a ta Dallat I			40 TI-					4
	nsmission towe				40m. The	e distand	e upto v	vnen tne	proadca	ast can
-	aking radius of e	earth to be		-		55 l	-13		50 L	
a)	100 km b)		60 km			55 km	a)		50 km	
	nbers of electro		spectrur						-13	
a)	frequency	b)		velocity	/ C)		wave le	engtn	d)	
	number									
	ectrum lies bet		!	L .\		ا داندند	I I I / -		-\	
a)	radio and mid			b)	111/25		and UV ı	egion	c)	
	wave and visible		d)	otions	ov and	X-ray re	gion			
	waves relevar		HIHIUHIC		c)		infra ra	4	۹)	
a)	ultra violet	b)		visible	6)		infra re	u	d)	
HILLIO	waves									