## **Physics**

1. The slit width, when a light of wave	elength 6500		a slit, if first mini	ma for red light i	s at 300
a) 1×10-6m b)		5.2×10−6m	c)	1.3×10−6m	d)
2.6×10−6m					
2.Newton's rings are observed by ke					
The wave length of light used is 5880	0A.If the dia	meter of the 15t	h bright ring is 0	.59cm, the diam	eter of
the 5th ring is					
a) 0.226cm b)		0.446cm	c)	0.336cm	d)
0.556cm					
3. The resulting intensity after interfer	rence of two	coherent waves	s represented by	y1a1cost and y	2a2cos2t
will be					
a) a1-a2 b)	a1+a2	c)	a12-a22	d)	
a12+a22					
4.In a young's experiment, one of the					
due to which position of central fringe		position original	ly occupied by 3	0th bright fringe.	. The
refractive index of the sheet, if $\lambda$ =600	00Å is				
a) 1.5 b)	1.2	c)	1.3 d)	1.7	
5.In young's double slit experiment w	vith monoch	romatic light of v	vave length 600	nm, the distance	between
slits is 10-3m. For changing fringe w	idth by 3×1	0−5m			
a) the screen is moved	away from	the slits by 5cm	b)	the screen is m	noved by
5cm towards the slits c)	the scre	een is moved by	3cm towards the	e slits d)	
both (a) and (b) are correct					
6. When two coherent monochromati	c light beam	ns of intensities I	and 4I are supe	rimposed, what	are the
maximum and minimum possible inte	ensities in th	ne resulting bear	ns?		
a) 5I and I b)	5I and 3	3I c)	9I and	ld)	9I and
31		,		,	
7.In young's double slit experiment w	vhen violet li	ight of wave leng	gth 4358Å is use	ed, then 84 fringe	es are
seen in the field of view, but when so					
the field of view, the wave length of s			,	· ·	
a) 6893Å b)	5904Å		5523Å d)	6429Å	
8.In an interference pattern the posit	ion of zeroth	n órder maxima i	s 4.8mm from a	certain point P	on the
screen. The fringe width is 0.2mm. T					
a) 5.1 mm b)	ี่ 5 mm	c)	40 mm d)	5.2 mn	n
9.If young's double slit experiment is			,		
a) the fringe width will of		b)	the fringe width	will increase	c)
the fringe width will remain u		d)	there will be no		-,
10. The first diffraction minimum due					If the
width of the slit is 1×10-4cm, then the			ioi a light of was	ro longin occor.	
a) 300 b)	450	c)	600 d)	150	
11.2 non-coherent sources emit light					tensities
in the resulting beam are		ionomoo rana n	. The maximum	and minimum	
a) 9I and 3I b)		9I and 5I	c)	5I and I d)	
5I and 3I		or and or	0)	or and ray	
12.Light propagates 2cm distance in	glass of ref	ractive index 1.5	S in time t0. In the	e same time t0	liaht
propagates a distance of 2.25 cm in					iigi it
a) 4/3 b)	3/2	c)	8/3 d)		f these
13.Two wave fronts are emitted from					
Face difference between the wave fr					
	onis at mat	point is 1.092 ii	. wave length of	light enlitted by	Source
will be a) 5386Å b)	5400Å	c)	5460Å d)	5892Å	
,		U)	5 <del>+</del> 00∧ u)	JUSZA	
14.A spherical air bubble in water wil	ıı acı as	concave lens	<b>c)</b>	alace plate	۹)
a) convex lens b)		concave lens	c)	glass plate	d)
plano convex lens	aimala	mifion if the abi-	ot line		
15.A concave lens can be used as a	simple mag	jimer ii the obje	Ct iles		

a)		beyond		b)		within th	ne focal	length	c)		betwee	n f and
2f	d)		at 2f									
			sm the a	angle of	minimun	n deviatio	on is 30	0. Then t	the refra	ctive ind	lex of the	е
materia	I of the p	orism is										
a)		1/2	b)		2	c)		2	d)		22	
17.Lum	inous flu	ıx is exp	ressed i	n								
a)		Lumen	b)		Candela	а	c)		Weber	d)		Lue
18.Ligh	t travels	through	a glass	plate of	thicknes	s d. If n i	is the re	fractive i	index of	glass ar	nd c is th	ie
velocity	of light	in vacuu	m, the ti	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	
19.Wha	it is the r	magnifica	ation wh	en an ol	oject is p	laced at	2f of a d	convex n	nirror			
a)		1/3	b)		2/3	c)		1	d)		3/2	
20.A tai	nk is fille	d with w	ater upt	o a heigl	ht of 12.	5 cm. Th	e appar	ent deptl	h of a ne	edle at t	the botto	om of the
tank is (	(n of wat	ter =1.33	3)	_				-				
a)		12.5 cm	nb)		9.4 cm	c)		16.6 cm	nd)		11.17 c	m
21.A ma	an undei	r water iı	n a lake	is viewir	ng a boy	standing	on the	bank of	the lake.	Then fo	or him th	e boy
appears	s to be					_						•
a)		shorter	b)		taller	c)		of the sa	ame size	9	d)	
	16 cm											
22.A co	nvex mi	rror plac	ed at a d	distance	of 20 cn	n from a	candle f	orms a v	/irtual im	age at tl	he same	position
as that	formed b	oy a plar	ne mirror	at a dis	tance of	12 cm fr	om the	candle. \	What is t	he focal	length of	of the
convex	mirror?											
a)		20 cm			15 cm			10 cm			5 cm	
23.Whe	en light tr	avels fro	om 1 me	dium to	another	that rem	ains una	altered is	;			
a)		speed	b)		wave le	ngth	c)		frequen	су	d)	
	intensity	,										
		f a teles	cope is '	100 cm a	and mag	nificatior	า is 19. 7	The focal	l length o	of the ob	jective a	and eye
piece a	re											
<b>~</b> \		00 000 0	1 4 0 -	m	I- \						~=	
a)		90 0111 8	and 10 c	Ш	b)		85 cm a	and 1 cm	1C)		95 cm a	and 25
cm	d)		None of	f the abo	ové				,			and 25
cm 25.ln a	compou	nd micro	None o	f the abo	ové t produc	es a ma	gnificatio	on 10 an	d eyepie			and 25
cm 25.In a magnifi	compou	nd micro	None of scope the scope th	f the abo	ové t produc	es a mag	gnificatio	on 10 an	d eyepie croscope		uces a	and 25
cm 25.In a magnific a)	compou cation 5.	nd micro The ove	None of scope the scope th	f the abo he object gnification	ové t produc	es a ma	gnificatio	on 10 an	d eyepie			and 25
cm 25.In a magnific a) 26.The	compou cation 5.	nd micro The ove 2 f the sky	None of scope the scope th	f the abo he objec gnificatio	ové it produc on produ 5	es a mag ced by th c)	gnificatione comp	on 10 an ound mi	d eyepie croscope d)	e is	uces a	and 25
cm 25.In a magnific a)	compou cation 5. colour o	nd micro The ove 2 f the sky scatteri	None of secope the secope the secope the second terms of light and sec	f the abo he object gnification to ht	ové t produc on produc	es a mag ced by th c)	gnificatione comp	on 10 an ound mi 2 on of ligh	d eyepie croscope d)		uces a	and 25
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cm 25.In a magnifica) 26.The a) 27.An oa)	compou cation 5. colour o interfere bbject is	nd micro The ove 2 f the sky scatteri ence of I placed a	None of oscope the crall mag b) of light and in and in	f the about the object to the	bye t production production 5 b) rom a co b)	es a mag ced by th c) reflection	gnification ne comp refraction on of light	on 10 an ound mid 2 on of light t al length he foci, v	d eyepie croscope d) it if. The ir virtual, d	e is c) mage wi	uces a 50 Il be at	
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34.A concave lens has focal length f. A real objeproduces an image			stance f			s from t	
a) at infinity b)	at f	c)		at f/2	d)		at 2/f
35. The image formed by a plane mirror is							
a) real and same size as the object	tb)		virtual,	same siz	ze as the	object	c)
real and magnified d)	none of	these					
36. The limit of resolution of the eye is one minut	e at a di	stance x	from the	e eye. Tv	vo perso	ns stan	d with a
lateral separation of 3cms. To see the two person							
a) 20km b) 15km	c)		10km	d)		30km	
37.In the displacement method of measuring the		nath of a			e lenath	of the ir	nages in
the two positions of the lens between the object							
of the object is					оороош.	o.,	
a) 6.25 cmb) 1.5 cm	c)		6 cm	d)		36 cm	
38. The refracting angle of a prism is A and the re		index o					) the
angle of minimum deviation is	onaoavo	iiidox o	i tilo illa	torial or	ino prion	. 001702	-,
a) 180-A b) 180-3A	c)		90-A	d)		180-2A	
39.A ray of light travels from vacuum into a med		fractive					
			IIIUEX II.	THE and	Jie oi iiic	idelice i	5 Iouilu
to be twice the angle of refraction. The angle of			۵\		Onin 1n	۵۱	
a) $\cos -\ln 2$ b)	2cos-1	11/2	c)		2sin-1n	a)	
2sin-1n/2						1! - 4	0.1
40.An object placed at distance 'a' from the focu	is of a co	nvex ier	ns torms	its real i	mage at	a distar	ice b
from the focus. The focal length of the mirror is							
a) ab b) ab	c)		a+b2	d)		ab	
41. The distance between a point source of light	and a so	creen is o	doubled.	The inte	ensity of	light on	the
screen will be							
a) Four times the original value	b)		half of t	he origir	nal value	c)	
two times the original value d)		one qua	arter the	original	value.		
42. From the following which one is used for stud	dying ultr	a violet l	light?				
a) prism of crown glass b)	-	prism o	f flint gla	SS	c)		prism of
quartz d) prism with combination	of flint a	nd crowr	n glass				·
43.Electromagnetic waves are			•				
a) longitudinal waves b)		transve	rse wave	es	c)		neither
longitudinal nor transverse d)	stationa	ary wave	:S		,		
44. If there are no atmosphere the average temp	erature o	on the su	urface of	the earl	h would	be	
a) lower b) higher			same a		d)		00C
45.displacement current was first produced by	•,				ω,		
a) Ampereb) Henry	c)		Maxwel	I	d)		base
46. Pick out the odd one which has extremely sh		lenath r				visible l	
can be emitted from the nucleus of an atom.	on wave	, iongui i	110011 011	01101 1110	ii tilat oi	V101010	igiit aiia
a) UV radiation b)	beta ra	diation	c)		y radiati	on	d)
infra red radiation	DCIG 1G	alation	<b>U</b> )		y radiati	OII	u)
	ight of 2/	10m The	a dictanc	o unto v	than tha	broade	act can
47.The TV transmission tower in Delhi has a hei be received [taking radius of earth to be 6.4×106		+0111. 1116	z uistaric	e upio v	viieli lile	Divauc	asi can
	-		EE km	۹/		EO km	
a) 100 km b) 60 km	,		55 km	a)		50 km	
48.All the members of electro magnetic spectrur						15	
a) frequency b)	velocity	' C)		wave le	ngth	d)	
wave number							
49.Infra red spectrum lies between							
a) radio and micro wave region	b)			and UV r	egion	c)	
micro wave and visible region d)		UV and	X-ray re	egion			
50. Choose the waves relevant to telecommunication							
a) ultra violet b)	visible	c)		infra red	b	d)	
micro waves							