Physics

	ioliowing is	ilot all electiv	o magne	tic wave						
a)	x-rays b)		alpha-ra	ays	c)		gamma	-rays	d)	
light ray	/S									
2.Electro magn	etic waves o	of wave lengt	h rangin	g from 1	00Åto 4	000Å co	me unde	er		
a)	x-rays b)	_	UV regi		c)		visible r		d)	
	d region (Ŭ		,			Ū	,	
3.Electro magn		suggests that	the light	consists	s of					
a)		ector alone				vector a	lone	c)		electric
and magnetic v				⊃r	d)	V00101 C		electric	and mad	
vector	colors perp	criaicalai to t	Jacii Otiik	٠١.	u)		paranci	CICCLIIC	απα πιας	jiicho
4.The frequence	v of radio w	avoe corroen	onding t	2 W2V	lonath	of 10 m	ic			
· ·			oriumy t	3.3×108			15	3×109⊦	I - -	۹/
a)	3×107Hz	b)		3.3×100	рПΖ	c)		3×109	12	d)
3×10-7			1 14							
5.The electrom	-	es travei witi	-				()			
a)	sound b)		light	c)		greater	than tha	it of light	: d)	
	than that of									
6.The existence	of EM wav	es were exp	erimenta	lly confir	med by					
a)	Maxwell	b)		Farada	y	c) (7	Hertz	d)	
Tesla										
7.The back em	in a DC mo	otor is maxim	ium whei	า						
a)	the motor h	nas picked u	o maximi	um spee	d	b)		the mot	or has ju	ıst
started moving			ed of mo			rease	d)		the mot	
just been switch					7	,	/			
8.AC measuring		t measures								
a)	peak value			rms val	ile.	c)		any val	IIE	d)
averag	•	. 5)		IIIIS Vai	uc	0)		arry van	uc	u)
9.The Q-factor		at circuit is o	aual to							
	1CWR b)	it circuit is et	1WL	2)		CWR	۹/		fCW	
a)				c)		CVVK	d)		ICVV	
10.ln a step-do				ms in	D.:			,		D.:
a)										
										Primary
						/ are mo	ie	c)		Primary
11.In AC circuit	equal d) s choke is p	referred to re	second esistors b		nfinite			·		
11.In AC circuit a)	equal d) s choke is p choke coil	referred to re	second esistors t b)	pecause	nfinite	are mo		c)		energy
11.In AC circuit a) is not wasted	equal d) s choke is p choke coil d)	referred to re is cheap current	second esistors b	pecause	nfinite			·		
11.In AC circuit a)	equal d) s choke is p choke coil d)	referred to re is cheap current	second esistors t b)	pecause	nfinite			·		
11.In AC circuit a) is not wasted	equal d) s choke is p choke coil d)	oreferred to re is cheap current stance in	second esistors t b)	pecause	nfinite voltage			c)	ve rectifi	energy
11.In AC circuit a) is not wasted 12.A choke is u	equal d) s choke is p choke coil d) sed as resis AC circuits	oreferred to re is cheap current stance in	second esistors to b) increase	pecause es DC circ	nfinite voltage	increas		c)	ve rectifi	energy
11.In AC circuit a) is not wasted 12.A choke is u a) circuits d)	equal d) s choke is p choke coil d) sed as resis AC circuits bo	oreferred to reis cheap current stance in b) th AC and D	second esistors to b) increase C circuits	pecause es DC circ	nfinite voltage	increas		c)	ve rectifi	energy
11.In AC circuit a) is not wasted 12.A choke is u a) circuits d) 13.The frequen	equal d) s choke is p choke coil d) sed as resis AC circuits bo cy of AC ma	oreferred to reis cheap current stance in b) th AC and D sins in India i	second esistors to b) increase C circuits	pecause es DC circ	nfinite voltage	increas	es	c) half-wa	ve rectifi	energy er
11.In AC circuit a) is not wasted 12.A choke is u a) circuits d) 13.The frequen a)	equal d) s choke is p choke coil d) sed as resis AC circuits bo	oreferred to reis cheap current stance in b) th AC and D ains in India i	second esistors to b) increase C circuits	pecause es DC circ	nfinite voltage	increas		c) half-wa	ve rectifi	energy
11.In AC circuit a) is not wasted 12.A choke is u a) circuits d) 13.The frequen a) C/S	equal d) s choke is p choke coil d) sed as resis AC circuits bo cy of AC ma	oreferred to reis cheap current stance in b) th AC and D sins in India i	second esistors to b) increase C circuits	pecause es DC circ	nfinite voltage	increas	es	c) half-wa	ve rectifi	energy er
11.In AC circuit a) is not wasted 12.A choke is u a) circuits d) 13.The frequen a) C/S 14.A transform	equal d) s choke is p choke coil d) sed as resis AC circuits bo cy of AC ma 110 C/S	oreferred to reis cheap current stance in b) th AC and D sins in India i	second esistors t b) increase C circuits s	DC circ 50 C/S	nfinite voltage	increas	es 60 C/S	c) half-wa		energy er
11.In AC circuit a) is not wasted 12.A choke is u a) circuits d) 13.The frequen a) C/S 14.A transforma	equal d) s choke is p choke coil d) sed as resis AC circuits bo cy of AC ma 110 C/S er works on DC onlyb)	oreferred to reis cheap current stance in b) th AC and D sins in India i	second esistors to b) increase C circuits	DC circ 50 C/S	nfinite voltage	increas	es	c) half-wa	ve rectifi d)	energy er
11.In AC circuit a) is not wasted 12.A choke is u a) circuits d) 13.The frequen a) C/S 14.A transforme a) high vo	equal d) s choke is p choke coil d) sed as resis AC circuits bo cy of AC ma 110 C/S er works on DC onlyb) Itage only	oreferred to reis cheap current stance in b) th AC and D sins in India i	second esistors t b) increase C circuits s	DC circ 50 C/S	nfinite voltage	increas	es 60 C/S	c) half-wa		energy er
11.In AC circuit a) is not wasted 12.A choke is u a) circuits d) 13.The frequen a) C/S 14.A transforme a) high vo 15.Alternating v	equal d) s choke is p choke coil d) sed as resis AC circuits bo cy of AC ma 110 C/S er works on DC onlyb) Itage only voltage	oreferred to reis cheap current stance in b) th AC and D ains in India i	second esistors t b) increase C circuits s	DC circ 50 C/S	voltage uits c)	c) both A0	es 60 C/S C and D0	c) half-war d)		energy er 120
11.In AC circuit a) is not wasted 12.A choke is u a) circuits d) 13.The frequen a) C/S 14.A transforme a) high vo 15.Alternating v a)	equal d) s choke is p choke coil d) sed as resis AC circuits bo cy of AC ma 110 C/S er works on DC onlyb) Itage only roltage is independ	oreferred to reis cheap current stance in b) th AC and D sins in India i	second esistors t b) increase C circuits s AC only	DC circ 5 50 C/S	voltage uits c) varies (c) both Ac	es 60 C/S	c) half-war d)		energy er
11.In AC circuit a) is not wasted 12.A choke is u a) circuits d) 13.The frequen a) C/S 14.A transforma high vo 15.Alternating v a) inversely with ti	equal d) s choke is p choke coil d) sed as resis AC circuits bo cy of AC ma 110 C/S er works on DC onlyb) Itage only voltage is independent	oreferred to reis cheap current stance in b) th AC and Dains in India ib)	second esistors to b) increase C circuits s AC only varies s	DC circ 5 50 C/S (c)	voltage uits c) varies of	c) both Acdirectly witime	es 60 C/S C and D0 vith time	c) half-war d)		energy er 120
11.In AC circuit a) is not wasted 12.A choke is u a) circuits d) 13.The frequen a) C/S 14.A transforme a) high vo 15.Alternating v a) inversely with ti 16.The law of e	equal d) s choke is p choke coil d) sed as resis AC circuits bo cy of AC ma 110 C/S er works on DC onlyb) Itage only voltage is independent d) Ilectromagne	oreferred to reis cheap current stance in b) th AC and Deins in India in b)	second esistors to b) increase C circuits s AC only varies s	DC circ 50 C/S /c)	voltage uits c) varies of aly with the column in the colum	both Addirectly witime construct	es 60 C/S C and D0 vith time	c) half-wa d) c	d)	energy er 120 varies
11.In AC circuit a) is not wasted 12.A choke is u a) circuits d) 13.The frequen a) C/S 14.A transforme a) high vo 15.Alternating v a) inversely with ti 16.The law of e	equal d) s choke is p choke coil d) sed as resis AC circuits bo cy of AC ma 110 C/S er works on DC onlyb) Itage only voltage is independ me d) Ilectromagne electric ope	oreferred to reis cheap current stance in b) th AC and Deins in India in b)	second esistors to b) increase C circuits s AC only varies s	DC circ 5 50 C/S (c)	voltage uits c) varies of aly with the column in the colum	c) both Acdirectly witime	es 60 C/S C and D0 vith time	c) half-war d)	d)	energy er 120
11.In AC circuit a) is not wasted 12.A choke is u a) circuits d) 13.The frequen a) C/S 14.A transforme a) high vo 15.Alternating v a) inversely with ti 16.The law of e a) none o	equal d) s choke is p choke coil d) sed as resis AC circuits bo cy of AC ma 110 C/S er works on DC onlyb) Itage only voltage is independent me d) Ilectromagne electric ope f the above	oreferred to reis cheap current stance in b) th AC and Dains in India in b) dent of time etic inductioneratorb)	second esistors to b) increase C circuits s AC only b) varies so have be	DC circ 50 C/S (c)	voltage uits c) varies of aly with the column in the colum	both Addirectly witime construct	es 60 C/S C and D0 vith time	c) half-wa d) c	d)	energy er 120 varies
11.In AC circuit a) is not wasted 12.A choke is u a) circuits d) 13.The frequen a) C/S 14.A transforme a) high vo 15.Alternating v a) inversely with ti 16.The law of e a) none o 17.Power cons	equal d) s choke is p choke coil d) sed as resis AC circuits bo cy of AC ma 110 C/S er works on DC onlyb) Itage only coltage is independent me d) Ilectromagne electric ope f the above umed in an a	oreferred to reis cheap current stance in b) th AC and Dains in India in b) dent of time etic induction eratorb)	second esistors t b) increase C circuits s AC only varies s have be come ze	DC circ 50 C/S 50 C/S (c) sinusoida een used electric ro if	voltage uits c) varies of ally with the of motor	both Addirectly witime construct	es 60 C/S C and DO with time ion of	c) half-war d) c) galvano	d) omet	energy er 120 varies d)
11.In AC circuit a) is not wasted 12.A choke is u a) circuits d) 13.The frequen a) C/S 14.A transforme a) high vo 15.Alternating v a) inversely with ti 16.The law of e a) none o 17.Power cons a)	equal d) s choke is p choke coil d) sed as resis AC circuits bo cy of AC ma 110 C/S er works on DC onlyb) Itage only coltage is independent me d) Ilectromagne electric ope f the above umed in an a	oreferred to reis cheap current stance in b) th AC and Dains in India ib) dent of time etic inductioneratorb) AC circuit be and resistar	b) come zence are b	DC circ 5 50 C/S cinusoida een used electric ro if	voltage uits c) varies cally with the comotor	both Addirectly witime construct	es 60 C/S 2 and D0 with time ion of inducta	c) half-war d) c) galvano	d) omet	energy er 120 varies d)
11.In AC circuit a) is not wasted 12.A choke is u a) circuits d) 13.The frequen a) C/S 14.A transforme a) high vo 15.Alternating v a) inversely with ti 16.The law of e a) none o 17.Power cons a) both low	equal d) s choke is p choke coil d) sed as resis AC circuits bo cy of AC ma 110 C/S er works on DC onlyb) Itage only voltage is independent me d) lectromagne electric ope f the above umed in an a inductance c)	oreferred to reis cheap current stance in b) th AC and Dains in India ib) dent of time etic inductioneratorb) AC circuit be and resistar	b) come zeence very	DC circ 5 50 C/S cinusoida een used electric ro if	voltage uits c) varies cally with the comotor	both Addirectly witime construct	es 60 C/S 2 and D0 with time ion of inducta	c) half-war d) c) galvano	d) omet	energy er 120 varies d)

18.The ri	ms value of c	urrent (Irm	ıs) is							
a)	b/2	b)		2lo	c)	ω	d)	2	210	
	urely inductiv	e circuit th	e curren	nt	,		,			
a) .		hase with			b)	is out o	of phase	with the v	oltage	c)
	eads the volta			J	lags behind th				•	,
				a capaci	tor and an ac s			ens if the	capaci	tv of the
	is reduced?					, , , , , , , , , , , , , , , , , , , ,	i i i i i i i i i i i i i i i i i i i			.,
a)		mp shines	more br	riahtly	b)	the lan	nn shines	less brig	htlv	c)
,					he lamp d)	tilo lan	•	ess may i	•	,
	depending of				no lamp a)		Drigital	Joo may n	1101040	0 01
	sformer is a									
a)					voltage high o	rurrent	b)		hiah vo	Itage lov
	nto low voltag			c)				nt into low		
current of					nanical power	ollage III	gii cuitci	it iiito iow	voitag	CIOW
	esonant frequ				iariicai powei					
	εsonant πεφι 1/2πl			12πLC	۵)	12πL/0	241		12πC/L	
a)								*	_	
		and capac	citarice a	ne both	doubled in LCI	R Circuit,	trie resor	iani irequ	ency o	ııne
circuit wi			half tha	ri a i a a	الم مياميا		doores		forth th	
a)		ease to one				alua O		se to one-		
original v	,	_	increase	e to twic	e the original v	alue	d)	(decreas	se to
	original valu									
	ower factor in		circuit at			0.0	-1\		4 (0	
a)	zero	b)	., -	1	c)	8.0	_d)		1/2	
•			•	inen the	e impedance of		IIT IS			
a)	induc		b)		capertive	c)		partially	inductiv	ve and
	conductive	d)		resistive						
				sitive va	lues of alterna		tities is c			
a)		period	b)		amplitude	c)		frequenc	;y	d)
	cycle			/		— .				
			-	-	$1=5\sin(wt+\phi)$.					
a)	SA	b)		2×SA	C)	S/2A	d)	7	2.5A	
	tive reactanc					14				
a)	Ampe			ohm	c)	volt	d)	'	weber	
	_				a complete cy				10	
a)	zero	b)	-	1 rms	c)	i/2	d)	ı	/2	
	uction may st									15
a)		ectric field			Its coils c)		its mag	gnetic field	a	d)
	Both electric a									
					and 2mH. The	current i	n both co	oils are inc	creased	d at
			tne indu		fs in the coil is	4.0			2.4	
a)	4:1	b)		1:4	c)	1:2	d)		2:1	
			iductanc		connected to a					the coil
a)	0.8J			8J	c)	. 16J	d)		4J	
					ced close toget				one co	il is
				he mutu	al inductance b	oetween t				
a) .	M=L1	L2	b)		L1L22 c)		M=(L1+	-L2)2 (d)	
	M=L1L2									
				rinciple (of mutual induc					
a)		nometer	b)		ammeter	c)		potention	neter	d)
	ransformer		_							
			f a coil ir	n which	an induced em	if of 2V is	set up w	hen the c	urrent i	is
_	at the rate of			: :	,				. =	
a)	0.5m	,		0.05H	,	2H	d)	(0.5H	
	s Law is a co			ot conse		,			_	
a)		y only	b)		charge only	c)		moment	um only	/d)
ϵ	energy and m	omentum								

37.Two blocks /										/stem is	pulled
horizontally with			of 2m/s	-	rce F	on B. The					
a)	10N	b)		40N	c)		100N	d)		120N	
38.A body of ma							n/s and r	ebounds	s with the	same	speed. If
the time of cont			orce exe			all is					
a)	8N	b)		2×104N			4N	d)		104N	
39.The mechan	iical adva	antage o	f a syste	em of pu	ılley s i	s four. The	e force n	eeded to	ว lift a ma	ass of 1	00 kg
will be											
a)	20kg. V	٧t	b)		25kg.	Wt	c)		5kg. Wt	d)	
15kg. V											
40.The distance					aving ir	nitial veloc	ity u and	l having	constant	i accele	ration a
is given by x=ut											
a)		ı's First L		b)			ı's Secor	nd Law	c)		
	's Third		d)			of the abo					
41.A plumb bob				ng of a	car. If t	the car mo	ves with	the acc	eleration	'a' the	angle
made by the str	_					, ,	,		•		
a)	sin−1(a	<u>g</u>)	b)		sin-1	(ga)	c)		tan-1(a	g)	d)
tan-1(g								9			
42.A weight W						ed plane b	y a force	e F eithe	r acting a	along th	ne plane
or horizontally.		-	t triction				*:- 0	-11		0	
a) 42	tan θ	b)		sec θ	c)		sin θ	d)		cos θ	11 1:61
43.A 1000 kg lif									istance ii	n wnich	the lift
can be supporte			cending			01 2.5 11/5				0.00	
a) 44 A bady is pr	5/16m	,	منطمييمه	5/32 m	,	ficion of t	1m	d)		2m	n of the
44.A body is pro	ojected t	ıp a 4501	ougn in	cime. II	ie coei	licient of t	riction is	0.5. 1116	en me re	larualio	on or the
block is	a/22	b)		a/2	۵) ۸		3g/22	۹/		a/2	
a) 45.A body take:	g/22	b)	h tima ta	g/2	C)	450rougl		d)		g/2	
smooth 450incli					Own as	45010ugi	i iiiciiiie	as II lan	es to silu	ie down	ıa
a)	1–1/n2		iii Oi iiic	1/1-n2	c)		1-1/n2	۹)		1/1-n2	
,		,	ward wi			If air ever		,			
46.A ball of mass m is thrown upward with a velocity v. If air exerts an average resisting force F, the velocity with which the ball returns back to the thrower is											
a)	vmgmg		b)	to the ti	vFmg		c)		vmg-Fn	na+F	d)
vmg+Fı		• 1	D)		vi ilig	.,	U)		villy i ii	119 . 1	u)
47.A ball of mas		strikes a	wall no	rmally w	vith a s	need of 30	າ m/s an	d rebour	nds with	a sneed	d of
20m/s. The imp								a reboui	IGS WILL	a spece	J 01
a)	1N-S	b)	CACITOO	5N-S	c)	tile ball is	2N-S	d)		3N-S	
48.A body kept			ined nla			nation 1 ir	_				to the
inclined plane if								,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	ational y i	Clative	to the
a)	g/x2-1		in a non	gxx2-1		ation eque	x2−1/gx	(d)		x3-1/g	Y
49.The minimur	_		ith which	_	,	slide dov					
of his weight is	11 400010	"Callott W	************	1 4 111 011	iaii oai	i ondo dov	··· a rop	01 5100	many out	nigai w	o uma
a)	zero	b)		g/3	c)		3g	d)		g	
50.An elevator i			llv un wi			tion 'a'. Th	_				
passenger of m) P 11								
a)	mg	b)		ma	c)		mg-ma	d)		mg+ma	a
- ,		- /			-,			/			