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	ACHIEVEMENT TEST - 2023-24	T
	ime: 1.30 Hrs. PHYSICS	
1	Which charge configuration produces a uniform electric field? Total Marks :10 (a) Point charge	00
2	<ul> <li>(c) Uniformly charged infinite plane</li> <li>(b) Uniform charged infinite line</li> <li>(c) Uniformly charged infinite plane</li> <li>(d) Uniformly charged spherical shell</li> <li>a torque equal to 8 Nm. The charge on the dipole if the dipole length is 1 cm is</li> </ul>	
3	(b) 8 mc	
5	r if they are made to touch each other and then separated to the same distance, the force them will	nce
4	An electric field E = 10x collete	0e
	An electric field $E = 10xi$ exists in a certain region of space Then the potential difference $V = V_0$ - where $V_0$ is the potential at the origin and $V_x$ is the potential at $x = 2m$ is (a) 10V (b) - 20V (c) 20 V	٧,
5	Two points A and B are maintained (c) 20 V (d) - 10V	
6	50 electrons from A to B is (a) 8.80 x 10 <sup>-17</sup> J (b) - 8.80 x 10 <sup>-17</sup> J (c) 4.40 x 10 <sup>-17</sup> J (d) 5.80 x 10 <sup>-17</sup> J (e) - 8.80 x 10 <sup>-17</sup> J (c) 4.40 x 10 <sup>-17</sup> J (d) 5.80 x 10 <sup>-17</sup> J (e) Q remains the same C is doubled	i'la
	(c) C remains same O do is doubled (b) Q is doubled. C doubled	
7	A parallel plate capacitor stores a charge Q at a voltage V. Suppose the area of the parallel plate capacitance (a) capacitance (b) charge (b) charge (c) capacitance (c) capa	itor
8	(D) Charge (C) voltage (d) ensure describe	
0	Two metallic spheres of radii 1 cm and 3 cm are given charges of 1 x 10 <sup>2</sup> C and 5 x 10 <sup>2</sup> C respective If there are connected by a conducting wire the final charge on the bigger sphere is	ely
9	(a) $3 \times 10^{2}$ C (b) $4 \times 10^{2}$ C (c) $1 \times 10^{2}$ C (d) $2 \times 10^{2}$ C A toaster operating at 240V has a resistance of 120 $\Omega$ . Its power is	
10	$(D) \neq W$ (c) 480W (d) 240 W	
	A carbon resistor of $(47 \pm 4.7) k\Omega$ to be marked with rings of different colours for its identification. The colour code sequence will be (a) Yellow-Green-Violet-Gold (b) Yellow-Violet-Orange-Silver (d) Green-Orange-Violet-Gold	/er
11	Two wires of A and B with circular cross section are made up of the same material with equal length Suppose $R_A = 3R_B$ , then what is the ratio of radius of the wire A to B?	15
12	A wire connected to a power supply of 230V has power dissipation P suppose the wire is cut into he	NID.
	The ratio P <sub>2</sub> / P <sub>1</sub> is (a) 1 (b) 2 (c) 3 (d) 4	2
13.	In India electricity is supplied for domestic use at 220V. It is supplied at 110V in USA. If the resistance of a 60W bulb for use in USA will be (a) R (b) 2R (c) R/4 (d) R/2	ce
14.	In a large building, there are 15 builts of 40W, 5 builts of 100W, 5 fans of 80W and 1 heater of 1 Kt	w
15	areconnected. The voltage of electric mains is 220V. The minimum capacity of the main fuse of the building will be (a) 14A (b) 8A (c) 10A (d) 12A (d) 12A (c) 10A (d) 12A (c) 10A (d) 12A (c) 10A (d) 12A (c) 10A (c)	
	The resistance of the wire will be 20 at (a) 1154k (b) 1100k (c) 1400k (d) 1127k	
16.	A piece of copper and another of germanium are cooled from room temperature to 80k. The resistance of (a) each of them increases (b) each of them decreases (c) copper increases and germanium decreases (d) copper decreases and germanium increase	
17.	The internal resistance of a 2.1V cell which gives a current of 0.2A through a resistance of 100 is	
18.	(a) $0.2\Omega$ (b) $0.5\Omega$ (c) $0.8\Omega$ (d) $1.0\Omega$ In Joule's heating law, when I and t are constant, if the H is taken along the y axis and I <sup>2</sup> along the x axis, th graph is (a) straight line (b) parabola (c) circle (d) Ellipse	)e
19	graph is (a) straight line (b) parabola (c) circle (d) Ellipse The force experienced by a particle having mass m and charge q accelerated through a potentia difference V when it is kept under perpendicular magnetic field B is	ai
	(a) $\sqrt{\frac{2q^3BV}{m}}$ (b) $\sqrt{\frac{q^3B^2V}{2m}}$ (c) $\sqrt{\frac{2q^3B^2V}{m}}$ (d) $\sqrt{\frac{2q^3BV}{m^2}}$	
	A circular coil of radius 5cm and 50 turns carries a current of 3 ampere. The magnetic dipole moment of the coil is (a) 1.0 amp - m <sup>2</sup> (b) 1.2 amp - m <sup>2</sup> (c) 0.5 amp - m <sup>2</sup> (d) 0.8 amp - m <sup>2</sup>	
	A thin insulated wire forms a plane spiral of N=100 tight turn carrying a current I=8mA. The radii of inside and outside turns are a = 50mm and b = 100mm respectively. The magnetic induction at the centre of the spiral is (a) $5\mu T$ (b) $7\mu T$ (c) $8\mu T$ (d) $10\mu T$	e
22.	Three wires of equal lengths are bent in the form of loops. One of the loops is circle, another is a semi-circle and the third one is square. They are placed in a uniform magnetic field and same electric current is passed through them. Which of the following loop configuration will experience greater torque?	1.4
23-	(a) Circle (b) semi-circle (c) square (d) all of them A wire of length I carries current I along the Y direction and magnetic field is given by	
23	$\vec{B} = B/3$ $\vec{A} + \hat{T} + \hat{K}T$ The magnitude of Lorentz force acting on the wire is	
	$(a_{\lambda})^{2}_{,3}\beta_{11}$ $(b_{\lambda})^{1}_{,3}\beta_{11}$ $(c)^{1}_{,2}\beta_{11}$ $(0)_{\lambda}^{1}_{2}\beta_{11}$	
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www.Podosoloj Not	www.TrbTnpsc.com
24 A non-conducting charged ring of charge g.	www.TrbTnpsc.com mass m and radius r is rotated with constant angular ont with angular momentum is
Int alm	(d) 0/4m
(a) q/m (b) 2q/m 25. The vertial component of Earth's magnetic for	(c) $q/2m$ (d) $q/2m$ (d) $q/2m$ Id at a place is equal to the horizontal component. What a) $30^{\circ}$ (b) $45^{\circ}$ (c) $60^{\circ}$ (d) $90^{\circ}$
is the value of angle of dip at this place? (	a) $30^{\circ}$ (b) $45^{\circ}$ (c) $60^{\circ}$ (d) $90^{\circ}$
26. Two short bar magnets have magnetic momen	ts 1 20 AM <sup>2</sup> and 1.00 AM <sup>2</sup> respectively. They have a
magnetic induction at the mid-point O of the	line joining their centers is (Horizontal component
	(d) 2 2 x 10 <sup>4</sup> wbm
(-)	(c) 2.56 x 10" wom (d) 2.56 c harge density cess charge on its surface. The surface charge density ular to its plane passing through the center with angular
is a. The disc rotates about an axis perpendic	cess charge on its surface. The surface charge angular ular to its plane passing through the center with angular on the disc if its is placed in a uniform magnetic field
velocity ω. Find the magnitude of the forque whose strength is B which is directed perpen	disular to the axis of rotation
	(d) $1/4 \sigma \omega \pi BR^*$
displacement. If the uniform magnetic field is oscillation then. (a) time period will d	cillating with time period T and let 0 be the plane of switched on in a direction perpendicular to the plane of ecrease but $\theta$ will remain constant
(b) time period remain constant but 0 will dec	rease
(c) both T and θ will remain same	(d) both T and $\theta$ will decrease iven by $\phi B = 10t^2 - 50t + 210$ The induced emf at t=3s is
(a) 190V (b) 10V	
30. When the current changes from +2A to -2A in	0.05s, an emf of 8V is induced in a coil. The co-efficient
31. A circular coil with a cross-sectional area of solenoid that has 15 turns/om and a cross-si	4 cm <sup>2</sup> has 10 turns. It is placed at the centre of a long ectional area of 10 cm <sup>2</sup> . The axis of the coil coincides
with the axis of the solenoid what is their mi	dual inductance i
(a) 7.54 µH (b) 8.54 µH	(c) 9.54 μH (d) 10.54 μH
32. In a transformer the number of turns in the pri If the current in primary is 6A, then that in th	mary and the secondary are 410 and 1230 respectively.
(a) 2A (b) 18A	(c) 12A (d) 1A
33. A step-down transformer reduces the supply v	voltage from 220V to 11V and increase the current from
6A to 100A. Then its efficiency is (a) 1.2	(0) 0.03 $(0) 0.12$ $(0) 0.00$
from the circuit the phase difference betwee	source are all connected in series. When L is removed n the voltage and current in the circuit is $\pi/3$ . Instead,
if C is removed from the circuit, the phase dif	terence is again $\pi/3$ . The power factor of the circuit is
(a) $1/2$ (b) $1/\sqrt{2}$	(c) 1 (d) $\sqrt{3/2}$
between the voltage and current in the circuit	ctive reactance are the same then the phase difference is (a) $\pi/4$ (b) $\pi/2$ (c) $\pi/6$ (d) Zero
36. In a series resonant RLC circuit, the voltage	across 100 $\Omega$ resistor is 40V. The resonant frequency is the voltage across L is
	(c) 400V (d) 0.67W
37 An inductor 20mH a canacitor 50uE and a re	sistor $40\Omega$ are connected in series across a source of
emf v=10 sin 3401. The power loss in AC circu	It is (a) 0.7600 (b) 0.8900 (c) 0.4600 (d) 0.6700
38. The instanteneous values of alternating current $V = 1/\sqrt{2} \sin (100 \pi t + \pi/3) V$ . The average point of the standard	In the and voltage in a circuit and i= $1/\sqrt{2}$ sin (100 $\pi$ t) A and were in wants consumed in the circuit is
(a) 1/4 (b) $\sqrt{3}/4$	(c) 1/2 (d) 1/8
39. In an oscillating LC circuit, the maximum cha when the energy is stored equally between th	rge on the capacitor is Q. The charge on the capacitor
	(c) $Q/\sqrt{2}$ (d) Q
40 The dimension of $1/\mu \epsilon$ is (a) [  T <sup>-1</sup> ]	(b) $[L^2T^2]$ (c) $[L^1T]$ (d) $[L^2T^2]$
41. If the amplitude of the magnetic field is 3 x 10-67	, then amplitude of the electric field for a electromagnetic (c) 600 vm <sup>-1</sup> (d) 900 vm <sup>-1</sup>
waves is (a) 100 vm (b) 300 vm (	(c) 600 vm <sup>-1</sup> (d) 900 vm <sup>-1</sup>
42. Which of the following electromagnetic radiati	on is used for viewing objects through fog (c) X - rays (d) infrared
(a) microwave (b) gamma rays 43. Which of the following are false for electromage	
(b) mechanical waves (c) congitudinal (d) p	produced by accelerating charges
44. Consider an oscillator which has a charged	particle and oscillates about its mean position with a
frequency of 300 MHz. The wavelength of ele	ctromagnetic waves produced by this oscilator is
(a) 1 m (b) 10 m	(c) 100 m (d) 1000 m
45. In an electromagnetic wave in free space th value of the magnetic field is	e rms value of the electric field is 3 VM <sup>-1</sup> . The peak
(a) $1.414 \times 10^{-8}$ T (b) $1.0 \times 10^{-8}$ T	(c) 2.828 x 10 <sup>-8</sup> T (d) 2.0 x 10 <sup>-8</sup> T
46. During the propagation of electromagnetic was	ves in a medium.
(a) electric energy density is double of the man	gnetic energy density.
<ul> <li>(b) electric energy density is half of the mag</li> <li>(c) electric energy density is equal to the mag</li> </ul>	agnetic energy density.
<ul><li>(d) Both electric and magnetic energy densit</li></ul>	ies are zero.
47. A radiation of energy E falls normally on a pe	
Kindly send me your enswer	rfectly reflecting surface. The momentum transferred to 12 Physics Itam 2 keys to us - padasalai.net@gmail.com

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the surface is (a) E/C (b) 2 E/2	(c) EC (d) E/C <sup>2</sup>
48. Which of the following is an electromagnetic wave (a) α - rays (b) B - rays	
(a) $\alpha$ - rays (b) $\beta$ - rays 49. The electric and magnetic fields of an electromagnetic fields of an	(c) γ - rays (d) all of them
(a) in phase and perpendicular to each other	b) out of phase and not perpendicular to each other
(c) in phase and not perpendicular to each other (	<ol> <li>out of phase and percendicular to each other</li> </ol>
So, Let $E = E_0 \sin [10^\circ x - wt]$ be the electric field plane	electromagnetic wave, the value of w is
(b) 3 v 10 1au S (b) 3 v 10-14 rad e	(c) 0 3 v 10 <sup>14</sup> rad s <sup>-1</sup> (d) 3 v 10 <sup>14</sup> rad S
51. The speed of light in an isotropic medium depends	s on
<ul> <li>(a) its intensity</li> <li>(c) the nature of progation</li> </ul>	(b) its wave length
52. A rod of length 10 cm lies plana the principal axis	(d) the moment of the source w.r.t. medium
a set to choser to the pole is 20 cm away	from the mirror. The length of the image is
(a) 2.5 cm (b) 5 cm	(c) 10 cm (d) 15 cm
53. An object is placed in front of a convex mirror of distance of an object formation of a convex mirror of	focal length of f and the maximum and minimum
(a) 2 food an object from the mirror such that the	image formed is real and magnified.
	(c) f and o (d) none of these
<ul> <li>54. For light incident from air on a slab of refractive incident (a) 30°</li> <li>(b) 45°</li> </ul>	(c) 60 <sup>a</sup> (d) 90 <sup>a</sup>
	(c) 60° (d) 90°
55. If the velocity and wave length of light in air is V refractive index of water is (a) V / V (b) V / (b) V / (b) V / (b) V / (c) stars twinkle due to (c) set (a) (b) V / (c)	V (c) $\lambda_{-}/\lambda_{-}$ (d) V $\lambda_{-}/V_{-}\lambda_{-}$
(b) total intern	al reflection (c) refraction (d) polarization
57. The radius of curvation of curved surface at a thin	planoconves lens is 10 cm and the refractive index
(a) 5 am	length will be
	(c) 15 cm (d) 20 cm
58. An air bubble is glars slab of refractive index 1.5 is deep when viewed from the opposite face. The thic	5 cm deep when viewed from one surface and 3 cm
(a) 8 cm (b) 10 cm	(c) 12 cm (d) 16 cm
59. A plane glass is placed over a various coloured l	etters (Violet, green, vellow, red) The letter which
appears to be raised more is (a) red (b) ye	ellow (c) green (d) violet
60. Two point white dots are 1 mm apart on a black pap	er. They are viewed by eye of pupil diameter 3mm
approximately. The maximum distance at which wavelength of light $\lambda = 500 \text{ nm}$ (a) 1 m	(b) 5 m (c) 3 m (d) 6 m
61. In a young's double-slit experement the slit sepe	ration is doubled. To maintain the same fringe
spacing on the screen the screen-to-slit distance E	must be changed to
	(c) v2D (d) D/v2
62. Two coherent monochromatic light beams of intens	ities I and HI are superposed. The maximum and
(a) 5 I and I (b) 5 I and 3 I	(c) 9 I and 1 (d) 9 I and 3 I
63. When light is incident on a soap film of thickness	(c) 9 I and I (d) 9 I and 3 I
maximum in the visible region is 5320 A. Refractive	index of the film will be
(a) 1.22 (b) 1.33	(c) 1.51 (d) 1.83
64. First diffraction minimum due to a single slit of widt	h 1.0 x 10 <sup>-5</sup> cm is a 30°. Then wavelength of light
used to (a) 400 A (b) 500 A	(c) 600 A (d) 700 A
65. A ray of light strikes a glass plate at an angle 60°. If	the reflected and refracted rays are perpendicular
to each other the refractive index of the glass is	(a) $\sqrt{3}$ (b) $3/2$ (c) $\sqrt{3}/2$ (d) 2
66. The transverse nature of light is shown in	
(a) interference (b) diffraction	(c) scattering (d) polarization
67. The wavelength $\lambda_{\mu}$ of an electron and $\lambda_{\mu}$ of a photon	
(a) $\lambda_{p} \alpha \lambda_{e}$ (b) $\lambda_{p} \alpha \nu \lambda_{e}$	(c) $\lambda_{p} \alpha I N \lambda_{e}$ (d) $\lambda_{p} \alpha N_{e}^{2}$
<ol> <li>In an electron microscope, the elections are accelerate 224 kv, then the de Brogile wavelength associated with</li> </ol>	the electrons would
(a) increase by 4 times (b) decrease by 2 times	
39. The wave associated with a moving particle of mass	$3 \times 10^{-6}$ d bas the same wavelength as an electron
moving with a velocity 6 x 106ms <sup>-1</sup> . The velocity of the	ne particle is
(a) 1.82 x 10 <sup>-18</sup> ms <sup>-1</sup> (b) 9 x 10 <sup>-2</sup> ms <sup>-1</sup>	
0. When a metallic surface is illuminated with radiation	of wavelength ) the stonning notantial is V 16 the
same surface is munimated with radiation of wavelen	III ZA, III e SIODDING DOTENTIAL IS VIA. The threshold
wavelength for the metallic surface is (a) 4/	(D) S (C) S (Z) (D) (D) (D) (D) (C) (D) (D) (D) (D) (D) (D) (D) (D) (D) (D
<ol> <li>A photoelectric surface is illuminated successively b the maximum kinetic energy of the emitted photoelectric</li> </ol>	y monochromatic light of wavelength $\lambda$ and $\lambda/2$ . If
the maximum kinetic energy of the emitted photoele first case, the work, function of the material is (a)	$hc/\lambda$ (b) $2hc/\lambda$ (c) $hc/3\lambda$ (d) $hc/2\lambda$
2. In photoelectric emission, a radiation whose freque	nev is 4 times threshold frequency of a cortain
metal is incident on the metal. Then the maximum p	ossible velocity of the emitted electron will be
(a) \hv <sub>o</sub> /m (b) \6hv <sub>o</sub> /m	(c) $2 \sqrt{hv} / m$ (d) $\sqrt{hv} / 2m$
3 Iwo radiations with photon energies 0.9 ev and 8.3.	ev respectively are falling on a motallic surface
	NEV IDED TOO TOULO OF MENUM EDOOD AT CONTRACT
cicculous in the two cases will be (a) 1.4	(D) 1:3 (C) 1:1 (d) 1:9
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74	The threshold wavelength	for a metal surface whose	e photoelectric work fur	iction is 3.313 eV is
	(8) 41201	(b) 3750A	1-1 00001	(d) 2002.57
	The work functions for me metals which will emit pho	toelectrons for a radiation	eV, 2.0 eV and 5.0 eV n of wavelength 4100Å	is/are
	(a) A only	(D) both A and B	(c) all these metals	(d) none
76.	Emission of electrons by t (a) photoelectric	he absorption of heat en		emission
77	In a hydrogen atom, the el	(b) field	(c) thermionic	(d) secondary
	(a) h	(b) $h/\pi$ .	outh orbit has angular (c) 4h/π	(d) $2h/\pi$
78.	Atomic number of H - like		$(c) = 40/\pi$	(u) 21000
	(a) 1	(b) 2	(c) 3	(d) 4
79	The ratio between the radi	us of first three orbital of	hydrogen atom is	
20	(a) 1:2:3	(b) 2:4:6	(c) 1:4:9	(d) 1:3.5
80	The charge of cathode ray (a) positive		(a) asisted	(d) not defined
81		(b) negative	(c) neutral erated through 2.6 ky 6	anter the region of cosserd
	electric field and magnetic	field of strength 3.0 x 104	Vm <sup>-1</sup> and 1.0 x 10 <sup>-37</sup> res	enter the region of cosserd pectively and pass through
	it and underflected then th (a) 1.6 x 1010Ckg-1	(b) 1.7 x 1011kg 1		
82	The ratio of the wavelengt	h radiation emitted for the	transection from n=2	in n=1 in l i** He* and H is
	(a) 1:2:3	(b) 1:4:9	(c) 3:2:1	(d) 4:9:36
83.	The elastic potential of an	electron is valid is given	by $V = V_0$ in $[r/r_0]$ , whe	ere r, is a constant. If Bhro quantum number n is
	(a) $rn\alpha 1/n$	ariation of radius of n <sup>m</sup> or	bit r with the principal	
84.	If the nuclear radius of 27A	(b) ma n is 3.6 fermi the approx	(c) rna 1/n <sup>2</sup>	(d) rna n <sup>2</sup>
	(a) 2.4	(b) 1.2	(c) 4.8	(d) 3.6
85.	The nuclear is approximate	ly spherical in shape. the	in the surface area of n	uclear having mass number
	A varies as (a) A <sup>2</sup>	3 (b) A*/3	(c) A <sup>1/3</sup>	(d) A <sup>3/3</sup>
00.	half - life. (that is, at t = "1	$(a) N_2$	(b) N <sub>2</sub> / $\sqrt{2}$	ei remaining after half of a (c) N <sub>o</sub> /4 (d) N <sub>o</sub> /g
87.	The barrier potential of a s			(0)
	(a) 0.7V	(b) 2.0 V	(c) 0.3 V	(d) 2.2 V
88.	If a small amount of antim (a) It becomes a p-type se	ony is added to germanic amiconductor	um crystal,	omes an accenteratom
	(c) there will be more free	electrons than hole in th	te semiconductor (d)	its resistance is increased
89.	In an unbiased p - n junc	tion. The majorily charg	e carriers into p - reg	ion diffuse into n - region
	because of (a) the p (b) the higher hole concent	tration in p - region than	that in n - region	
00	(b) the higher hole concent (c) the attraction of free - e	electrons of n - region	(d) all of the above	
90.	(c) the attraction of free - e If a positive half - wave red current flow through the load	electrons of n - region ctified voltage is fed to a ad (a) 10° - 90° (b) 9	(d) all of the above lead resistor for whih $20^{\circ} - 180^{\circ}$ (c) $0^{\circ} - 180^{\circ}$	part of a cycle there will be
90,	(c) the attraction of free - e If a positive half - wave red current flow through the loa The zener diode is primarll	ctified voltage is fed to a ad (a) 10° - 90° (b) 9	(d) all of the above lead resistor for whih 90° - 180° (c) 0° - 18	part of a cycle there will be $0^{\circ}$ (d) $0^{\circ}$ - 360°
90. 91.	If a positive half - wave rec current flow through the loa	ctified voltage is fed to a ad (a) 10° - 90° (b) 9	(d) all of the above lead resistor for whih $30^{\circ} - 180^{\circ}$ (c) $0^{\circ} - 18^{\circ}$ (c) oscillator	
90. 91. 92.	If a positive half - wave red current flow through the loa The zener diode is primarll (a) reclifier The principle based on whi	ctified voltage is fed to a ad (a) 10° - 90° (b) 9 y used as (b) amplifier ich a solar cell operates	lead resistor for whih 90° - 180° (c) 0° - 18 (c) oscillator	part of a cycle there will be 0° (d) 0° - 360° (d) voltage regulator
90. 91. 92.	If a positive half - wave red current flow through the loa The zener diode is primarll (a) reclifier The principle based on whi (a) diffusion	ctified voltage is fed to a ad (a) 10° - 90° (b) 9 y used as (b) amplifier ich a solar cell operates (b) recombination	lead resistor for whih 90° - 180° (c) 0° - 18 (c) oscillator as (c) photovollaic	(d) voltage regulator
90. 91. 92.	If a positive half - wave red current flow through the loa The zener diode is primarll (a) reclifier The principle based on whi (a) diffusion f the input to the NOT gate	ctified voltage is fed to a ad (a) 10° - 90° (b) 9 y used as (b) amplifier ich a solar cell operates (b) recombination e is A = 1011, its output	lead resistor for whih 90° - 180° (c) 0° - 18 (c) oscillator as (c) photovollaic	(d) voltage regulator
90. 91. 92. ( 93.   94. ]	If a positive half - wave red current flow through the loa The zener diode is primarll (a) reclifier The principle based on whi (a) diffusion f the input to the NOT gate To obtain sustained oscilla	ctified voltage is fed to a ad (a) $10^{\circ} - 90^{\circ}$ (b) s (b) amplifier (ch a solar cell operates (b) recombination (c) recombination (c) an oscillator	lead resistor for whih 90° - 180° (c) 0° - 18 (c) oscillator as (c) photovollaic is (a) 0100 (b) 100	(d) voltage regulator (d) carrier flow 0 (c) 1100 (d) 0011
90. 91. 92. ( 93. 1 94. 1 (	If a positive half - wave red current flow through the loa The zener diode is primarll (a) reclifier The principle based on whi (a) diffusion f the input to the NOT gate	ctified voltage is fed to a ad (a) $10^{\circ} - 90^{\circ}$ (b) S by used as (b) amplifier ich a solar cell operates (b) recombination e is A = 1011, its output tion in an oscillator sitive	lead resistor for whih 90° - 180° (c) 0° - 18 (c) oscillator as (c) photovollaic is (a) 0100 (b) 100 (b) Feedback factor	(d) voltage regulator (d) carrier flow 0 (c) 1100 (d) 0011
90. 91. 92. ( 93.   94.   (	If a positive half - wave red current flow through the loa The zener diode is primarll (a) reclifier The principle based on whi (a) diffusion If the input to the NOT gate To obtain sustained oscilla a) Feedback should be po c) phase shift must be 0 o	ctified voltage is fed to a ad (a) $10^{\circ} - 90^{\circ}$ (b) S by used as (b) amplifier (ch a solar cell operates (b) recombination (b) recombination (c) recombination	lead resistor for whih 90° - 180° (c) 0° - 18 (c) oscillator as (c) photovollaic is (a) 0100 (b) 100 (b) Feedback factor (d) all the above	(d) voltage regulator (d) carrier flow 0 (c) 1100 (d) 0011 must be unity
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