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1 The un	it of surface tension is
(a)N/C	
(b)N/m	
(c)C/N	
• •	
(d)m/N	
Ans.(b)	
4. The ac	celeration a of moving body from rest is 2 (t $-$ 1). Then, the velocity at 5 s will b
(a) 15 m/s	6
(b) 25 m/s	3
(c) 35 m/s	
(d) 45 m/s	3
Ans.(a)	
7. The mo	omenta of two particles of masses m and 2m are 2p and p respectively. The ratio
	etic energies will be
(a)2:1	8
(b)4:1	
(c)1:8	
(d)8:1	
Ans.(d)	
	escape velocity at the earth is 11.2 km/s, then what will be the escape velocity having mass 4 times of earth and gravitational acceleration equal to earth?
(a) 7.9 m/	S
(b) 11.2 k	xm/s
(c) 15.7 k	m/s
(d) None of	of these
Ans.(c)	
	range and time period of projectile are related to R = 5T2, then the angle of
	n will be
projection	n will be
projection (a)r/2	n will be
projection (a)r/2 (b)r/3	n will be
projection (a)r/2 (b)r/3 (c) r/4	n will be
projection (a)r/2 (b)r/3	n will be
projection (a)r/2 (b)r/3 (c) r/4	n will be
projection (a)r/2 (b)r/3 (c) r/4 (d) r/6	n will be

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G	10 1		
D		At which of the following positions, the acceleration of the particle in SUM will be	
E		mum? t mean position	
А		t peak position	
		t half position of amplitude	
L		Ione of the above	
J			
В	Ans.	(b)	
1			
G		The two particles A and B remain at rest position. Both of them due to their attraction	
		es move towards each other. At any instant the velocity of A is V. At that instant	
D		city of B is 2v. The velocity of centre- of mass of the system will be	
E	(a)v (b)ze	r0	
А	(c)1.5		
L	(d)3v		
J	Ans.	(b)	
В			
I		hollow cylinder and a solid cylinder having same mass and diameter are rolled at	
G		ned plane, then which will reach first at the bottom?	
D		oth at same time	
E	· · ·	lollow cylinder olid cylinder	
А		Vhich has more density	
L	(u) (i	inen nus more density	
-	Ans.	(c)	
J			
В		A player takes a complete round in path of radius R in 40 s. After 2 mm 20 s, its	
I	-	acement will be	
G	$(a) z \epsilon$		
D	(b) 2]		
E	(c)Zr (d)7r		
	(u)/1		
A	Ans.	(b)	
L			
J			
В			
1		The minimum distance of reflected surface from the source for listening the echo of	
G	soun		
	(a)28 (b) 19		
D	(b) 18	011	
E			
A			
L			

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J			J
В			В
I	(c) 19 m		I
G	(d) 16.5 m		G
D			D
E	Ans.(d)		E
A			A
L	29. Two sound waves of wavelengths 5 m and 6 m formed 30 beats in 3 s. The velocity	y of	
	sound is		L
J	(a) 300 m/s (b) 310 m/s		J
В	(c) 320 m/s		В
I	(d) 330 m/s		1
G			G
D	Ans.(a)		D
E			E
A	30. Two waves are in phase when		А
L	(a) amplitude is same		L
J	(b) wavelength is same		J
В	(c) amplitude and wavelength are same		В
1	(d) phase difference remains constant		1
G	Ans.(d)		G
D			D
E	32. Newton's law of cooling derived by		E
	(a) Stefan's law(b) Kirchhoffs law		A
A	(c) Wien's displacement law		L
L	(d) None of the above		
1			ſ
В	Ans.(a)		В
I	33. Which of the following laws explains the spectrum of black body?		1
G	(a) Rayleigh - Jeans's law		G
D	(b) Planck's law		D
E	(c) Wien's displacement law		E
А	(d) Stefan's law		А
L	Ans.(b)		L
J			ſ
В			В
I			I
G	39. The capacity of spherical conductor is 0.1 /1 F, then its radius will be (a)90m		G
D	(b)900m		D
E			E
A			А
L			L

В

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J B I G D E A L

> J B I G D E A L

> > J B I

G D E A

J B I

G D E A L

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(c)9000m (d)zero		
Ans.(b)		
43. According to Kirc	chhoffs law the algebraic sum of currents meeting at a junction is	
(a) limited		
(b) zero		
(c) infinite		
(d) None of these		
Ans.(b)		
44. If a container fille	d by the ideal gas keeps in the moving car, the temperature of the gas	
(a) will be increased		
(b) will be decreased		
(c) will remain unchan	ged	
(d) None of the above		
Ans.(c)		
	rns of primary and secondary coils of transformer are 500 and 5000	
respectively. The volt	age and frequency of primary coil are 800 V and 50 Hz respectively,	
respectively. The volt then the frequency ar		
respectively. The volt then the frequency ar (a) 50 Hz, 8000V	age and frequency of primary coil are 800 V and 50 Hz respectively,	
respectively. The volt then the frequency ar (a) 50 Hz, 8000V (b)800Hz800V	age and frequency of primary coil are 800 V and 50 Hz respectively,	
respectively. The volt then the frequency ar (a) 50 Hz, 8000V (b)800Hz800V (C) 50 Hz, 80V	age and frequency of primary coil are 800 V and 50 Hz respectively,	
respectively. The volt then the frequency ar (a) 50 Hz, 8000V (b)800Hz800V	age and frequency of primary coil are 800 V and 50 Hz respectively,	
respectively. The volt then the frequency ar (a) 50 Hz, 8000V (b)800Hz800V (C) 50 Hz, 80V	age and frequency of primary coil are 800 V and 50 Hz respectively,	
respectively. The volt then the frequency ar (a) 50 Hz, 8000V (b)800Hz800V (C) 50 Hz, 80V (d)50Hz ,800V	age and frequency of primary coil are 800 V and 50 Hz respectively,	
respectively. The volt then the frequency ar (a) 50 Hz, 8000V (b)800Hz800V (C) 50 Hz, 80V (d)5OHz ,800V Ans.(a)	age and frequency of primary coil are 800 V and 50 Hz respectively, nd voltage of secondary coil will be	
respectively. The volt then the frequency ar (a) 50 Hz, 8000V (b)800Hz800V (C) 50 Hz, 80V (d)5OHz ,800V Ans.(a)	age and frequency of primary coil are 800 V and 50 Hz respectively,	
respectively. The volt then the frequency ar (a) 50 Hz, 8000V (b)800Hz800V (C) 50 Hz, 80V (d)50Hz ,800V Ans.(a) 46. If an ideal gas fille temperature will be (a) increased	age and frequency of primary coil are 800 V and 50 Hz respectively, nd voltage of secondary coil will be	
respectively. The volt then the frequency ar (a) 50 Hz, 8000V (b)800Hz800V (C) 50 Hz, 80V (d)50Hz ,800V Ans.(a) 46. If an ideal gas fille temperature will be (a) increased (b) decreased	age and frequency of primary coil are 800 V and 50 Hz respectively, nd voltage of secondary coil will be	
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respectively. The volt then the frequency ar (a) 50 Hz, 8000V (b)800Hz800V (C) 50 Hz, 80V (d)50Hz ,800V Ans.(a) 46. If an ideal gas fille temperature will be (a) increased (b) decreased (c) unchanged (d) None of these Ans.(b)	age and frequency of primary coil are 800 V and 50 Hz respectively, ad voltage of secondary coil will be	
respectively. The volt then the frequency ar (a) 50 Hz, 8000V (b)800Hz800V (C) 50 Hz, 80V (d)50Hz ,800V Ans.(a) 46. If an ideal gas fille temperature will be (a) increased (b) decreased (c) unchanged (d) None of these Ans.(b)	age and frequency of primary coil are 800 V and 50 Hz respectively, nd voltage of secondary coil will be	
respectively. The volt then the frequency ar (a) 50 Hz, 8000V (b)800Hz800V (C) 50 Hz, 80V (d)5OHz ,800V Ans.(a) 46. If an ideal gas fille temperature will be (a) increased (b) decreased (c) unchanged (d) None of these Ans.(b) 54. In the full-wave rest	age and frequency of primary coil are 800 V and 50 Hz respectively, ad voltage of secondary coil will be	

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В	
I	(c)n/2
G	(d)n2
D	
E	Ans.(b)
A	
L	55. The adiabatic coefficient of a gas is 7/5 .This gas will be
	(a) He
1	(b) Ar (c) Ne
В	(d) H2
I	
G	Ans.(d)
D	
E	61. The nature of bond in diamond is (a) ionic
A	(b) covalent
L	(c) van der Waals
J	(d) metallic
В	Ang (b)
I	Ans.(b)
G	
D	62. Which of the following experiments does represent the wave nature of electrons?
E	(a) Davisson- Germer
A	(b) de-Broglie (c) Rutherford
L	(d) Millikan oil drop
1	Ans.(b)
B	65. The temperature of star is 6060 K and maximum radiation emitted at 4653 A. For
I C	another star, the maximum radiation emitted at 4545 A. The temperature of another star
G	will be
D	(a) 300 K
E .	(b) 6204 K (c) 3000 K
A	(d) 120 K
L	
J	Ans.(b)
В	67 A body is welking away from a well towards an absorver at a speed of 2 m/s and blows
I	67. A body is walking away from a wall towards an observer at a speed of 2 rn/s and blows a whistle whose frequency is 680 Hz. The number of beats heard by the observed per
G	second is (velocity of sound in air = 340 m/s)
D	(a) zero
E	(b) 2
А	
L	

J B I G D E A L

J B I G E A L

J В I G D Е А L J В I G D Е А L J В T G D Е А L

B I G E A L

J B I G D E A L

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> > J B I G D E A L

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(c)8	
(d)4	
Ans.(d)	
69. For uranium nucleus, the value of nucleon binding energy will be (a) 7.6eV	
(a) 7.6 eV (b) $7.6 \text{ , } U \text{ eV}$	
(c) 7.6 MeV	
(d) 7.6 keV	
Ans.(c)	
71. By which of the following the nucleus can't be cleaved?	
(a) a -ray	
(b) y -ray	
(c) b -ray	
(d) Laser	
Ans.(d)	
72. Which of the following is not semiconductor?	
(a)Si	
(b)Ge	
(c) NaCI	
(d) Cds	
Ans.(c)	
73. For good emissive should be	
(a) small work function and small melting point	
(b) small work function and high melting point	
(c) high work function and high melting point	
(d) high work function and small melting point	
Ans.(b)	
74. The retarding potential for having zero photoe lectron current	
(a) is proportional to the wavelength of incident light	
(b) increases uniformly with the increase in the wavelength of incident light	
(c) is proportional to the frequency of incident light	
(d) in an access symiformally with the increases in the frequency of incident light ways	
(d) increases uniformity with the increase in the frequency of incident light wave	
(d) increases uniformly with the increase in the frequency of incident light wave	

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В Ans.(d) Т G 75. From molecular theory of gas which of the following quantities at certainly for all gases D will be same? Ε (a) Momentum Δ (b) Kinetic energy т (c) Velocity (d) Mass в Ans.(b) Т 78. Which of the following instruments depends upon the coil which rotates in the magnetic G field? (a) Electric motor Е (b) Dynamo Α (c) Both (a) & (b) (d) None of these т Ans.(c) В Т 79. The principle of dynamo is G (a) electromagnetic induction D (b) magnetic induction Ε (c) electric induction (d) None of the above Α Т Ans.(a) В 82. The potential of illuminate cathode, grid and plate of triode valve are 0, -3 and 80 V respectively. An electron moves with the kinetic energy of 5eV from the surface of cathode. Т On reaching the grid, the kinetic energy of electron will be G (a) 15eV D (b)2eV E (d)85eV (d)3OeV Α Ans.(b) В 83. In photo-electric experiment, for incident light of 4000 A the stopping potential is 2 V. If the value of incident light is changed to 3000 A, the stopping potential will be G D (a) 2 V E (b) less than 2 V

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J			-
В			
1	(c) zero	0	
G	× /	re than 2 V	
D			
E	Ans.(d		
A	86 Th	e root mean square velocity and density of id	aal aas ara 1810 rn/s and 0.8 ka/m3
L		tively. Its pressure will be	ical gas are 1040 m/s and 0.0 kg/m5
-	-	2 x 105 N/m2	
J		2 x 104 N/m2	
В	× /	2 x 103 N/rn2	
1	(d) 9.02	2 x 106 N/m2	
G	Ans.(a)	
D		2	
E	89.800) identical water drops are combined to form	a big drop. Then, the ratio of the final
A		e energy to the initial surface energy of all th	e drops together is
L	(a)1:10		
	(b)1:15 (c)1:20		
J	(d)1:25		
В			
1	Ans.(c))	
G			
D	90. Th	ree light bulbs of 100 W, 200 W and 40 W ar	e connected in series with 200 V source.
E		irrent will be	
А	 	ximum in bulb of 100 W	
L		ximum In bulb of 200 W	
J	× /	ximum in bulb of 40 W al in all	
в	(u) equ		
1	Ans.(d		
G			
D	-	gas mixture consists of 2 moles of oxygen and	
E	Neglec	ting all vibrational moles, the total internal e	energy of the system is
A	(a)4RT		
	(b)15R		
L	(c) 9 R	Т	
J	(d) 11]	RT	
В	Ang (d		
1	Ans.(d	9	
G			
D		he mole $(y - 5/3)$ of monoatomic gas mixture	and the one mole of diatomic gas (y =
E	7/51. F	for mixtured the value of y will be	
А			

L

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		Download from	www.lhigDeal.in	Powered By © IbigDeal		
J						
В						
I	(a) 1.40					
G	(b) 1.50					
D	(c) 1.53 (d) 3.07					
E	(u) 3.07					
A	Ans.(b)					
L						
	97. Let g	g be the acceleration	due to gravity at earth	's surface and K be the rotation	al	
1			Suppose the earth's rac	lius decreased by 2% keeping al	l other	
В	-	es same, then	1 1 404			
I.		reases by 2% and K				
G		reases by 4% and K reases by 4% and K i				
D		reases by 4% and K				
E	(4) 9 400		increases eg 170			
A	Ans.(c)					
L			-	es m and M is F. Now if an anotl	-	
J		n placed in front and	l touch of m, then force	e on M due to m and total force of	on M will	
В	be (a) 2F, F					
1	(a) 2Γ , Γ (b) F, 2Γ					
G	(c) $F, 3F$					
	(d) F, F					
D						
E	Ans.(c)					
A						
L	00 Rost	Is listoned by two s	ound sources of some o	mplitude and same frequency. I	ntonsity	
J		•		sity of any source will be	intensity	
В	(a)equal					
I	(b) two t	imes				
G	(c) four t					
D	(d) eight	times				
E	Ans.(c)					
A						
L	100. The	e equation of wave is	s y =0.5 sin (101 + xl, T	his is moving along x-axis. Its ve	locity is	
J	(a)l0m/s	1		8 8	J	
В	(b)20m/					
I	(c) 5 m/s					
G	(d) None	e of these				
	Angla					
D	Ans.(a)					
E						
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L						

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А					1
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