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XII-Physics Chapter# 13 Page# 28 13.15 MULTIPLE CHOICE QUESTIONS (SELF PRACTICE):

Elec	tric Current:
Q.1	An electric current a caused by the motion of:
	* Electric discharge
	* Volt * None of these
Q.2	The rate of transfer of charges through a circuit is called: (2006)
er Service	The rate of transfer of charges through a circuit is called: * Resistance * Detection of the charges through a circuit is called: * Resistance
	* Potential difference * All of these
Q.3	Electrical conductors contain
	* Only free electrons * Only bound electrons * Neither bound nor free electrons
Q.4	If a net charge Q passes through any cross section of a conductor in time t,
V 41.	then the electric current established through the conductor is I
	$\star \frac{\theta}{2}$
MI	
	The S.I unit of current is:
- K	* Electron volt * Volt Ampere * Voltage
Q.6	The current due to flow of charge at the rate of one coulomb per second is
1117	scaned:
Talled a	* Electron volt * Volt * Ampère * Voltage
Q. 7	Charge carrier in Metallic conductors are the electrons of:
	Valence shells * All shells * Excited states * Inner shells
Q.8	Free electrons in an Electric field moves from:
	* All potentials * High Potential to low potential
A 0	Low potential to high potential * None of these
Q.y	The drift velocity is of the order of:
	* 10^5 ms^{-1} * 10^3ms^{-1} * 10^2 ms^{-1}
Q.10	2.0 x 10 ⁸ electrons pass through a conductor in 5.0 µs. Electronic charge is
1.	1.6 x 10. The current in ampere following through the conductor is:
O 11	* $1.6 \times 10^{-6} \mathrm{A}$ * $2.6 \times 10^{-6} \mathrm{A}$ * $3.6 \times 10^{-6} \mathrm{A}$ * $6.4 \times 10^{+6} \mathrm{A}$
V.11	Which of the following represents and electric current:
	* ErgC ⁻¹ * Dyne S ⁻¹
V., -	If 1 ampere current flows 2m long conductor, the charge flow through this is 1 hour will be:
	X 2 COO CO 1 4 TO 5 TO 1
17.9	n's Law:
Q.13	The current flowing through a conductor is directly proportional to the potential
	difference across its ends provided the physical state of the conductor remains constant this is:
	<u>현실실 수 있는 것은 그는 일본 경우</u> 전에 있는 것이 되었습니다. 하는 사람들은 전 하는 사람들은 사람들이 되었습니다. 그는 것은 것은 사람들이 되었습니다. 그는 것은 것은 사람들은 것은 것은 것은 것은 것이다. 그는 것은
0.14	* Maxwell's Law Symbolically Ohm's Law can be written as:
A	
	* $I \propto \frac{1}{\sqrt{V}}$ * $I \propto \sqrt{V}$ * $I \propto \frac{1}{V}$
O.15	In the relation $I = KV$, K stands for:
ح.ـــ د د د د	
5.87	* Resistivity * Specific Resistance * Permochility

		en e		XII-Physics Cha	pter# 13 Page# 29
	's Law is obe			Till Tilyalog Cita	and the second s
	emiconducto		* A metalli	c conductor	(2003 P.E)
	electron tub		✓* In all of t	hese	
Q.17 The g	graphical repr	esentation of O	nm's Law is:		
* Hy	perbola	* Ellipse	* Parabola	Straig	ht Line
Q.18 II R	s the resistar	ice of the cond	uctor, then Ohn	n's Law can be	written as:
* V =	$\frac{\mathbf{\hat{\chi}}}{\sqrt{\mathbf{I}}}$	* $V = \frac{R}{I}$	* $V = \frac{1}{R}$	V = I	No.
Resistan	e and Res	ictivity	K		
0.19 The r	neasure of the	opposition to t			
bumping wi	th the atom o	f the lattice is the	he motion of ele	ctrons due to the	eir continuous
Res		* Friction	* Voltage	* TX 2 = 11	
Q.20 The S	I unit of resi	stance:	Totage ₍₁₎	* Work	ACT TO SERVICE AND AND ADDRESS OF THE PARTY
* Vo	1.00 (4.00)	* Ampere	* mho	Ohm	
Q.21 If a c	urrent of 1 ar	npere flows thr	Ough a conduct	or whom a make	ntial difference
UL I	oit is applied	across its ends,	then resistance	of the conductor	is:
" " " "	nm v	✓ I Ohm	* 2 Ohm	* 3 Ohm	
	mbols of Oh	m is:			
*α	1 6 1	* B	* γ	$\mathbf{L}^{\mathbf{L}}\Omega$	
V.23 A san	pie of conduc	ctor is said to of	ey Ohm's Law	if its resistance	Ŗ:
	eases lains constant	CYK Chart	* Decreases	- 1 - 31 - 31 - 31 - 31 - 31 - 31 - 31	Val
		ictor depends u	* None of th	ese	
* The	notential diff	erence between	ita anda		The state of the s
* The	magnitude of	the current flow	ving the sign		
* The	nature only	THE CONTONE TIO	amg unough it		
The	nature, dimer	sion and physic	al state of the co	nductor	
Q.25 A WI	e of length	1 L and resid	stance R is c	ut into four (equal nieces
Resist	ance of each	piece would be	: TO ACT MARK	James Longite	equal picces.
* R		<u>R</u>	, * 3D = 70 \$250 2020.	\mathbb{R}	
	C	2	2K	~ 4	and the second of the second o
Q.26 The re	sistance of a	conductor of ler	gth L, cross-sec	tional area A an	nd resistivity o
is give	e in the second		Strain Christian		
-* R =) A/L 🖊	$R = \rho \frac{L}{L}$	* $R = \frac{\rho}{r}$	$*R = \frac{A}{A}$	
$\overline{\Omega}$		\mathbf{A}	LA	ρĹ	
A piec	e of wire of I	ength "L" and	an area of cross	-section "A" ha	is a resistance
	nomer piece	of wire of the	same material a	nd the came law	الماليم
the and	ective resistar	section is con	nected end-to-e	nd with the p	revious wire.
* R	. "	2R	1/3D		
Q.28 Volt pe	and the state of t	Q. W	- 1/JK	1/2K	
Ohm	3.50	.). `.	* Watt	* 1711/1	
			conductor is ca	lled wn	
* Spec	fic resistance		* Current		
	uctance		* Voltage		
Q.30 The un					
* Ohm	85 ×	Metre	* Ampere	w mho or s	siemens
			LET BUT.		

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U.31 The resistance of a meter cube of the substance is called
"Conductivity * Permitivity Resistivity * Suggestibility
Q.32 The resistivity of the material having the resistance R cross-sectional area
A and length L is given by:
그는 사람들이 살아보고 살아보고 살아왔다면 살아왔다면 살아왔다면 그 그 사람들이 살아
* $\rho = \frac{AL}{R}$ * $\rho = RAL$ * $\rho = \frac{L}{RA}$
Q.33 The S.I unit of resistivity is:
* $Ohm - m^{-2}$ $Ohm - m^{-1}$ $Ohm - m$ * Ohm
Q.34 A copper wire having resistivity "p" is stretched in such a way that its diameter
reduces to half of that of the original wire. The new resistivity will be:
*Halved *Doubled *The came * Face 1.1
Q.35 A wire of a uniform cross-section area is cut into three equal segments. The
resistivity "p" of each segment will be:
* 2/3p
Same as that of the whole wire * Three times as that of the whole
Q.30 If the wire of a uniform area of cross section is cut into two equal parts, the
and second that the control of the c
* Halved
Remains the same
Remains the same * None of the above Q.37 Resistance of a substance one meter in length and one square meter in cross
sectional area is called:
* Conductivity
* Conductivity Resistivity * Permittivity * Reactance O.38 When the temperature of a conductivity
and tomperature of a conductor is raised its resistance.
Always decreases
* Remains the same * First increased and then decreased
First increases and then decreases
Q.39 The resistance of the conductor increases due to the rice of terrorest
Q.39 The resistance of the conductor increases due to the rice of terrorest
Q.39 The resistance of the conductor increases due to the rise of temperature of a conductor, because the collision cross section of the atoms:
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Q.39 The resistance of the conductor increases due to the rise of temperature of a conductor, because the collision cross section of the atoms: * Decreases * Remains unchanged * sometime increases and sometime decreases Q.40 The temperature coefficient of resistivity of
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1.0			XII-Physics Chapter	# 13 Page# 31
0.44	If equivalent resistance R	of the resistance I	R. R. R. is series is F	? = ·
	5 B 8		The state of the s	,
	* $\frac{1}{R_1} + \frac{1}{R_2} + \frac{1}{R_3}$ * $\frac{R_1}{R_2}$ +	$\frac{1}{R_3} + \frac{1}{R_1} \times R_1 + \frac{1}{R_1}$	$R_2 + R_3 * R_1 R_2 R_3$	
Q.45	The potential difference a	across each resistar	nce in series combinat	ion is:
	* Same Diffe	rent * Infini	ity * Zero	
Q.46	When the resistance are con	nected in series, the	equivalent resistance is a	ılways:
	Greater than the greates	st resistance in seri	es	
J. V	* Equal to the greatest re	sistance in series		
	* Less than the largest re	sistence in series		•
	* Less than the smallest r	resistance in series		alandi. San
Q.47	When the resistors are co	nnected in series tl	hen:	
	The total current through	gh each is the same		
_p* _~ €	* The voltage across each	n is the same		
23 Jan.	* The total resistance is t	he sum of the recip	procals of the individu	al
	* The total resistance is t	the training the second of the contract of the		
Q.48	Resistors of 2 ohm, 3 ohm,	and the state of t		If the current
	through the 2 ohm resistor is			
	* 4 ampere Tam	pere * 14 an	npere * 0.1 ampe	ere
(0.49	A piece of wire of length	"L" and an area of	cross-section "A" has	a resistance
10	"R". Another piece of win	re of the same mate	erial and the same leng	gth but twice
	the area of cross-section	is connected end-t	o-end with the previou	us wire. The
444	effective resistance is:			
	* R	1/3R	* 1/2R	
Q.50	If Net resistance of resist			. *-
	* Parallel combination			
	* Simultaneously in serie	- A	N	
ng Ari Tagan Ariba	* Either in series or in pa	rallel combination		
Q.51	$\rightarrow W - W - W \rightarrow$ $2\Omega 2\Omega 2\Omega$			
, g==2g-,	In the figure above the ed	quivalent resistance	e is:	30 48 11 18 11
	*30 W60	*4Ω	* 2 Ω	· 4 · 2.
0.52	Three resistance 5000, 50	and the state of t	and the second s	s 555 volt
	mains. The current flowing			
4.5	*1A *100 i	mA * 10 m	A * 10 A	a de Ariana. Esta de Ariana
Resi	stance in Parallel:		ignatur (1997) Tirkhiri kati	2 2 22
	If the resistors are conne	ected side by side	with their ends joined	d together at
Qicc	common point, then they a			i together a
	Parallel	Serie		电弧管 二十二
	* Not Parallel		ner in Series nor parall	lel
0.54	The equivalent resistanc		The state of the s	
Z	is R:		, at 1, 1, 1, 2, 1, 3	ere te
		R. R.		
	$\frac{1}{R_1} + \frac{1}{R_2} + \frac{1}{R_3} + \frac{R_1}{R_2} + \frac{1}{R_2}$	$\frac{2}{R} + \frac{3}{R} \times R_1 + \frac{3}{R}$	$R_2 + R_3$ * $R_1 R_2 R_3$	
		4.7		
Ų.55	The potential difference	acioss each resi	stance are connected	i is parailel
	combination:		ity * Zero	
		rent a intin		
V	*Same * Diffe	erent "Iniin	Zero	*

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Q.56 When the resistance are connected in parallel, the equivalent	
* Greater than the sum of the individual resistance	
* Greater than the smallest resistance in combination	
* Equal to the sum of the individual resistance	
Less than the smallest resistance in the combination	
Q.57 In a house circuit all the electrical appliances are connected	ected in parallel with the
phase and the neutral to get:	
The same current and different potential difference. The different currents but the same potential difference	
• * The different currents and different potential difference	es
* The same current and the same potential difference	
O 58 The resistances of 2 ohms, 5 ohms, 7 ohms and 9 ohms	are connected in parallel.
If the potential difference across the 5 ohms resistan	nce is 5V, the potential
difference across 9 ohm resistance will be:	* 1.5V
* 9V * 2.5V * 2.5V	lel If the P.D. across 50
Q.58(a) Resistors 07 3 Ω , 5 Ω and 7 Ω are connected in paral resistor is 6V, the P.D across the other resistors is:	(2013)
* 4 Volt	* 10 Volt
1.59 Three resistors of resistance 2, 3 and 6 ohms are con	inected in parallel, their
equivalent resistance is:	
*11.0 ohm *1.33 ohm *1.5 ohm	* 1.0 ohm
$Q.60 \rightarrow \frac{2\Omega}{2\Omega} \rightarrow$	
If the figure above the equivalence is: $\sqrt{2}\Omega$	$\Omega * \frac{1}{3}\Omega * 6\Omega$
그는 그 이번 이 그는 바깥에 가는 사람이 있는 그 맛을 꾸게게 하는 것들은 것이 모든 것이다. 그는 것이다.	
Power Dissipation in Resistance:	singled is the form of
Q.61 As the charge flows through the conductor energy is dis * Heat * Solar energy * Light	* None of these
Q.62 One-Kilo-Watt-Hour is equal to:	
$3.6 \times 10^{5} \text{J}$ * $360 \times 10^{6} \text{J}$ * $3.6 \times 10^{4} \text{J}$	* $36 \times 10^5 J$
Q.63 The power dissipated by a resistance is given by:	C.41
P = VR	* None of these
Q.64 The power dissipated in a resistance is given by: V^2/R	*All of these
Q.65 The electrical energy dissipated as heat in a resistor is g	iven by: * V ² Rt
* I ² R * I ² R * V ² R Q.66 The commercial unit of electrical energy is:	V Kt
* Ohm Watt-Watt-Hour	* Ampere
Q.67 Two wires of resistance R ₁ and R ₂ are connected in s	series in a circuit. If K_1 is
the greater than R ₂ , Heating would be: More in R ₁ * More in R ₂ * Same in R ₁ & l	R ₂ * All of these
More in R_1 * More in R_2 * Same in R_1 & Q.68 When a resistor carries a current "I", the power diss	ipated by it is "P". If the
same resistor carries the current of "31", the power dis	sipated will be:
* P/3	* None of the above
Q.69 Unit of Power, Joule / Second is called:	* Navston
* Joule * Volt Watt	* Newton
Q.70 If one ampere current flows through a resistor against volt, this is called:	potential difference of one
* Ampere * Watt * Volt	* Joule
a district and a second se	

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Q.71 The practical unit power is: * Watt **Kilowatt * Joule	* None of these
Q.72 One Kilowatt is equal to: * 10 ⁵ Watt * 10 ⁶ Watt * 10 ³ Wat	t * None of these
Q.73 Amount of energy delivered by the current in on	e hour when it supplies energy at
the rate of 1000 J/S is known as:	
* Joule * KWh * Newton	* None of these
Which one of the following bulbs has least resist * 100 Watt * 200 Watt * 500 Wa	tance? * 60 Watt
(0.75) If a 40 watt light bulb for 2 hour, how much hea	t is generated?
* 80 J * 400 J * 288 x 1 Q.76 The resistance of 60 watt bulb is a 120 volt line	0 ³ J * 3600 J
* 30 ohm * 120 ohm * 240 ohr	m * 60 ohm
Electromotive Force:	
The work per unit charge done by the source in	moving a charge around a closed
Q.7D The work per unit charge done by the source in	moving a charge around a crosed
loop is called: * Potential	al difference
* Potential energy * Kinetic	
Q.78 The total energy expended per coulomb of e	lectricity when charge is driven
round a circuit is called:	
* Electro	motive source
* Potential energy * Kinetic	energy
Q.79 The unit of electromotive force is:	
* Coulomb per second * Joule p	er second
Joule per coulomb * Volt pe	r ampere
Q.80 By electromotive force:	
2.6 F	produced
	is produced
Q.81 The terminal potential difference V, of a battery	is always:
Equal to the or	an emf of battery
* Greater than the emf of battery * Zero	
Q.82 Internal resistance is the resistance offered by:	cuit * The resistance
Source of emf * The conductor * The cir	of internal resistance 'v' and emf
Q.83 Terminal potential difference V, of a battery	(2011 Supp.)
E IS	
$ \begin{array}{c} (E' \text{ is.}) \\ * V_t = E - Ir \\ \end{array} $ * $V_t = E$	$V_t = E \frac{1}{I}$
Q.84 The emf of a source is equal to the potential difference of the potential differe	ference across the terminals of the
source when its internal resistance is:	(2001)
Zero * Very high * Very lo Q.85 The E.M.F. of the three cells, each of 2 volts, in	n parallel will be:
* 6V * 8V	* Zero V
Q.86 Total potential difference across the comb	ination of three cells becomes
maximum when:	(2003 P.M)
All the three cells are connected in series	
* All the three cells are connected in parallel	the third cell in series with the
* Two cells are connected in parallel and	the find cen in sories with the
* Two cells are connected in series and the	ne third cell in parallel with the
combination.	
Comonación	erative of the second of the s

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ANSWER KEY

ANOVE	NACI
1. Electric Charge	2. Current
3. Both free and bound electrons	$4. \frac{\theta}{t}$
5. Ampere	6. Ampere
7. Valence shells	8. Low potential to high potential
9, 10 ⁻³ m/s	10. 6.4 x 10 ⁻⁶ A
11. CS ⁻¹	12. 3600 C
13. Ohm's Law	14. I ∝ V
15. Conductance	16. In all of these
17. Straight Line	18. V = IR
19. Resistance	20. Ohm
21. 1 Ohm	22. Ω
23. Remains Constant	24. The nature dimension and physical state of the conductor
25. R/4	$26. R = \rho \frac{L}{A}$
27. 1/3 R	28. Ohm
29. Conductance	30. mho or semen
31. Resistivity	32. $\rho = \frac{RA}{L}$
33. Ohm – m	34. The same
35. Same as that of the whole wire	36. Remains the same
37. Resistivity	38. Always increases
39. Increases	$40. x = \frac{(\rho_{\tau} - \rho_{\nu})}{\rho_{o} \Delta T}$
41. $\alpha = \frac{R_T - R_o}{R_o \Delta T}$	42. K ⁻¹
43. Series	$44. R_1 + R_2 + R_3$
45. Different	46. Greater than the greatest resistance in series
47. The total current through each is the some	48. 1 ampere
49. $\frac{1}{3}$ R	50. Series Combination
51.6Ω	52. 10 A
53, Parallel	54. $\frac{1}{R_1} + \frac{1}{R_2} + \frac{1}{R_3}$
55. Same	56. Less than the smallest resistance in combination
57. The different current but same potential difference	58. 5 V 58(a). 6 V
59. 1.0 ohm	$60.\frac{2}{3}$
61. Heat	62. 36 x 10 ⁵ J
63. $P = V^2/R$	64. All of these
65. I ² .Rt	66. Kilowatt Hour
67. More in R ₁	68. 3 P
69. Watt	70. Watt
71. Kilowatt	72. 10 ³ Watt
73. KWh	74. 500 Watt
75. $288 \times 10^3 \text{ J}$	76. 240 ohms
77. Electromotive Force	78. Electromotive Force
79. Joule per coulomb	80. Current is produced
81. Less than emf of battery	82. Source of emf
83. $Vt = E - I\gamma$.	84. Zero
85. 2V	86. All the three cells are connected is series

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15.14 MULTIPLE CHOICE QUESTIONS (SELF PRACTICE):

Uai	vanometer:					
(1)	An devise used for the detection and	I measurement of current is called:				
	* Galvanometer * Voltmeter	* Ammeter * Ayometer				
(2)						
	* Force exerted on the coil	* Torque exerted on the coil				
	* Mass of the coil	* Area of coil				
(3)	Galvanometer is based on the:					
	* Electromagnetic effect of current	* Chemical effect of current				
	* Magnetic effect of current	* Heating effect of current				
(4)	The current passing through the coil	of the galvanometer is:				
	of deflection of the coil					
	* Independent of the coil					
	* Directly proportional to the angle	of deflection of the coil				
	* None of the above	B				
(5)	The galvanometer constant is given by	by:				
% .	* C / NAB * NAB / C	* NAC/B * NB/AC				
(6)	The galvanometer can be made sensitive by making the value of factor C/NAB:					
100	* Large * Small	* Zero * Infinite				
(7)	The sensitivity of a galvanometer can b	be increased by increasing: (2008)				
	* Magnetic field	* Number of turns .* All of them				
(8)	$I = \frac{C}{BNA} \theta \text{ Hence to increase the sensitivity}$	y of a galvanometer, we must decrease the value of				
	*θ	* B * C * C * * C * * C * * C * * C * * C * * C * * C * * C * * C * * C * * C * * C * * C * * C * * C * * C *				
(9)	The unit of least count on a galvanome	ter scale represents:				
,	* Division * Ohm	* Volt * Henry				
(10)	ilibrium, then the deflecting couple is:					
	* Zero	* Equal to the restoring couple				
•	* Greater than the restoring couple	* Smaller than the restoring couple				
Amn	neter:	and the second second second				
(11)	A device which is used to measurement	ent of current is called:				
	* Ammeter * Voltmeter	* Galvanometer * Avometer				
(12)	A galvanometer is converted into an a	ammeter by connecting a suitable:				
	* High resistance in series	* Low resistance in parallel				
	* High resistance in parallel	* Low resistance in series				
		(2008, 2003 P.E. 2002 P.E. 2001)				

* Decreased * Kept constant * Sometimes increased and sometime decreased (15) In a circuit Ammeter is always connected in: * Series * Parallel * Both series and parallel * None of these (16) A good ammeter is one which: * Can measure both alternating and direct current * Has very small internal resistance * Has very high internal resistance * Has linear scale of measurement (17) A device which is used to measurement of voltage is called: * Ammeter * Voltmeter * Galvanometer * Avometer (18) To convert a galvanometer into a voltmeter a resistance is connected in:	;d
* Increased * Increased * Kept constant * Sometimes increased and sometime decreased * Kept constant * Sometimes increased and sometime decreased * Series * Parallel * Both series and parallel * None of these (16) A good ammeter is one which: * Can measure both alternating and direct current * Has very small internal resistance * Has very high internal resistance * Has linear scale of measurement (17) A device which is used to measurement of voltage is called: * Ammeter * Voltmeter * Galvanometer * Avometer (18) To convert a galvanometer into a voltmeter a resistance is connected in:	ed .
* Decreased * Kept constant * Sometimes increased and sometime decreased (15) In a circuit Ammeter is always connected in: * Series * Parallel * Both series and parallel * None of these (16) A good ammeter is one which: * Can measure both alternating and direct current * Has very small internal resistance * Has very high internal resistance * Has linear scale of measurement (17) A device which is used to measurement of voltage is called: * Ammeter * Voltmeter * Galvanometer * Avometer (18) To convert a galvanometer into a voltmeter a resistance is connected in:	ed
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* Kept constant * Sometimes increased and sometime decreased (15) In a circuit Ammeter is always connected in: * Series * Parallel * Both series and parallel * None of these (16) A good ammeter is one which: * Can measure both alternating and direct current * Has very small internal resistance * Has very high internal resistance * Has linear scale of measurement (17) A device which is used to measurement of voltage is called: * Ammeter * Voltmeter * Galvanometer * Avometer (18) To convert a galvanometer into a voltmeter a resistance is connected in:	ed
 (15) In a circuit Ammeter is always connected in: * Series	
* Series	
* Both series and parallel * None of these (16) A good ammeter is one which: * Can measure both alternating and direct current * Has very small internal resistance * Has very high internal resistance * Has linear scale of measurement (17) A device which is used to measurement of voltage is called: * Ammeter * Voltmeter * Galvanometer * Avometer (18) To convert a galvanometer into a voltmeter a resistance is connected in:	**************************************
 (16) A good ammeter is one which: * Can measure both alternating and direct current * Has very small internal resistance * Has linear scale of measurement (17) A device which is used to measurement of voltage is called: * Ammeter * Voltmeter * Galvanometer * Avometer (18) To convert a galvanometer into a voltmeter a resistance is connected in: 	
* Can measure both alternating and direct current * Has very small internal resistance * Has very high internal resistance * Has linear scale of measurement (17) A device which is used to measurement of voltage is called: * Ammeter * Voltmeter * Galvanometer * Avometer (18) To convert a galvanometer into a voltmeter a resistance is connected in:	
* Has very small internal resistance * Has very high internal resistance * Has linear scale of measurement (17) A device which is used to measurement of voltage is called: * Ammeter * Voltmeter * Galvanometer * Avometer (18) To convert a galvanometer into a voltmeter a resistance is connected in:	
* Has very high internal resistance * Has linear scale of measurement (17) A device which is used to measurement of voltage is called: * Ammeter * Voltmeter * Galvanometer * Avometer (18) To convert a galvanometer into a voltmeter a resistance is connected in:	
* Has linear scale of measurement (17) A device which is used to measurement of voltage is called: * Ammeter * Voltmeter * Galvanometer * Avometer (18) To convert a galvanometer into a voltmeter a resistance is connected in:	
(17) A device which is used to measurement of voltage is called: * Ammeter * Voltmeter * Galvanometer * Avometer (18) To convert a galvanometer into a voltmeter a resistance is connected in:	
* Ammeter * Voltmeter * Galvanometer * Avometer (18) To convert a galvanometer into a voltmeter a resistance is connected in:	
(18) To convert a galvanometer into a voltmeter a resistance is connected in:	
* High resistance in series	
* High resistance in parallel * Low resistance in series	
(19) To convert a galvanometer into a volumeter the high resistance is given by:	
* $R_X = \frac{R_g - V}{(I - I_g)}$	ti.
(20) In order to increase the range of voltmeter the high resistance is:	
* Decreased * Increased * Kept constant	
* Sometime increased and some time decreased	技 傷
(21) In a circuit, voltmeter is always connected in:	
* Series * Parallel	100
* Both series and parallel * None of these	
(22) A good voltmeter is one which:	
* Can measure both A.C and D.C	- X
* Has very small internal resistance * Has very high internal resistance	
Wheatstone Bridge:	
(23) A balanced Wheatstone bridge is used to measure:	
* Current * Voltage * Unknown resistance * Electric flux	
(24) When Wheatstone bridge is balanced then:	
* Galvanometer is giving full deflection	
* Galvanometer's deflection is zero * $R_1 / R_2 > R_3 / R_4$	
* $R_1 / R_2 > R_3 / R_4$	

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(23)	w nearstone bridge	is an arrangement oo	noisting on	
	* Three resistances	* Two resistances	* Four resistances	* Five resistances
(26)	The condition for the	ne Wheatstone Bridg	e to be balanced is gi	ven by:
	$* \frac{R_1}{R_2} = \frac{R_4}{R_3}$	* $\frac{R_1}{R_2} = \frac{R_3}{R_4}$	* $\frac{R_2}{R_1} = \frac{R_3}{R_4}$	$* \frac{R_2}{R_1} = \frac{R_4}{R_3}$
(27)	In a Wheatstone Br	idge circuit we balar	ice:	
	* Resistance	* Current	* Voltage	* All of these
(28)	Balanced position of Galvanometer:	of wheatstone brid	ge is obtained when	potential at the terminals
	* is same	* is altered	* is different	* is established
(29)	A meter bridge is	an apparatus used to	o measure the: (201	3)
	* Current	* Voltage	* Magnetic field	* Unknown resistance
(30)	A meter bridge also			
	* Voltmeter	* Ammeter	* Galvanometer	* Slide-wire bridge
(31)	The construction o	f meter bridge is base	ed an the principle of	a:
	* Voltmeter	* Ammeter	* A.C generator	* Wheatstone bridge
(32)	Slide-wire bridge i	s a practical form of	the:	
	* Galvanometer	* Post office box	Voltmeter	* Wheatstone bridge
(33)	In Slide-wire bridg	e method, the unkno	wn resistance is deter	mined by the relation:
	* $x = \frac{\ell_2}{\ell_1} R$	* $x = \frac{1}{\ell_2}R$	* $x = R/\ell_1 \ell_2$	$*x = \frac{\ell_1}{\ell_2 R}$
Post	Office Box:	~0.		
(34)	P.O. Box is used	o find:		Deadle Community (A Marine) A Marine (A Marine) A Marine (A Marine) A Marine (A Marine) A Marine (A Marine) A A Marine (A Marine) A Marine (A Ma
	* Current	* Resistance	* e.m.f.	* All of these
(35)	The working princ	iple of a post office b	oox is:	· · · · · · · · · · · · · · · · · · ·
	* Wheatstone Brid	ge * Potentiometer	* Telegraph line	* None of these
(36)	Post office is a pra	ctical form of:	and the second of the second o	
	* Ammeter	* Voltmeter	* Meter bridge	* Wheatstone bridge
(37)	Which one of the sufficient accuracy		ent can measure the	unknown resistance whic
	* Potentiometer	* Slide wire bridge	e * Post office box	* Galvanometer
(38)	Three arms of a l resistance of the fo		box are 75 ohm re	sistance each. What is th
	* 225 ohm	* 150 ohm	* 75 ohm	* 300 ohm
Pote	ntiometer, Ohmr	neter, Avometer:	1	
(39)	A potentiometer is	an instrument used t	o measure:	
	* Current	* Voltage	* Resistance	* Electric flux

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(40)	An instrument which measures poten known as:	tial without drawing a	ny current from the circuit is
	* Voltmeter	* Potentiometer	* Galvanometer
(41)	A potentiometer circuit give continuo	usly varying:	
	* Potential difference	* Capacitance	
	* Charge	* Inductance	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1
(42)	The apparatus used to compare the em	nf of two cell is:	
	* A Wheatstone bridge	* A galvanometer	
	* A potentiometer	* A ammeter	
(43)	Which one of the following is used to	determine internal resi	stance of a cell?
	* Ammeter * Voltmeter	* Galvanometer	* Potentiometer
(44)	Potentiometer can be used as:		
	* Ammeter * Voltmeter	* Galvanometer	* Potential divider
(45)	Potentiometer is used to: (2003 P.M		
	* Compare emf of two cell	* Detect internal re-	sistance of cell
	* Measure P.D	* All of these	sistance of con
(46)	To increase the accuracy of potentiome		
	* A uniform wire of a large length sho		
	* A uniform wire of a small length sho	. 131	
	* A non uniform wire should be used		
Tray To	* None of these		
Misc	ellaneous:	et all a	
(47)	An Avometer is a device which can me	easure: (2012, 2002 P.F	7)
, v.*	* Voltage only	* Current only	
	* Resistance only	* Current, Voltage a	nd Resistance
(48)	Which of following instruments is us		
•	resistance.		potential difference and
	* Ammeter * Voltmeter		* Avometer
(49)	A single device containing ammeter vol	tmeter and ohmmeter i	s called:
	* VTVM * CRO	* Potentiometer	* Multimeter
(50)	AVO meter is used to find:		
	* Current * Resistance	* e.m.f.	* All of these
51)	Which of the following device is not u	ised for measuring res	sistance:
1	* P.O. Box * Potentiometer		Meter bridge
52)	Which of the following can be used to		•
	* Ohm meter * Meter bridge	*PORov	A 11 - C 41

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(53)	The process of reducing amplitude of vibration of coil of Galvanometer is called:		
	* Drifting * Doping	* Shunting * Damping	
(54)	If the length of the wire of potentiometer is increased, the accuracy in the determination of null point:		
	* Increases * Decreases	* Remains the same * Becomes Zero	
(55)	A moving coil galvanometer is converted into an ammeter by connecting to it:		
	* Low resistance in series	* High resistance in series	
	* High resistance in parallel	* Low resistance in parallel	
(56)	Galvanometer can be converted into voltmeter by connecting:		
	* A high resistance in series	* A low resistance in series	
	* A high resistance in parallel	* A low resistance in parallel	
(57)	Sensitivity of Galvanometer is given	by:	
17	* CBAN	* C BAN C	
(58)	The device which makes use of wheat	tstone bridge is:	
	* Meter bridge * Voltmeter	* Ohmmeter * Potentiometer	
(59)	The device which can measure e.m.f. of co	ells without drawing current from them is called:	
	* Potentiometer * Meter bridge	*Voltmeter * Ohmmeter	
(60)	In a circuit Voltmeter is always connected in:		
۲, ۱	* Series	* Parallel	
	* Both Series and Parallel	* None of these	
(61)	To increase the accuracy of a potention	ometer:	
•	* A uniform wire of a small length sh	ould be used	
	* Thickness of wire will be increased		
- 1	* Thickness of wire will be decreased		
	* A uniform wire of a large length she		
(62)	The deflection of coil of Galvanometer is directly proportional to: * Resistance of Coil * Strength of magnetic field		
* ,			
		* Area of coil	
(63)	For Balanced Position of wheatstone bridge:		
t.	$* \frac{R_1}{R_3} = \frac{R_2}{R_4} \qquad * \frac{R_2}{R_1} = \frac{R_3}{R_4}$	* $R_1R_4 = R_2R_3$	
A Comment			

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ANSWER KEY

1. Galvanometer	$33. x = \frac{\ell_2}{\ell_1} R$
2. Torque exerted on the coil	34. Resistance
3. Magnetic effect of current	35. Wheatstone bridge
4. Directly proportional to the angle of deflection of the coil	36. Wheatstone bridge
5. C / NAB	37. Post Office Box
6. Small	38. 75 ohm
7. All of them	39. Voltage
8. C	40. Potentiometer
9. Division	41. Potential difference
10. Equal to the restoring couple	42. A potentiometer
11. Ammeter	43. Potentiometer
12. Low resistance in parallel	44. Potential divider
13. $R_S = \frac{I_g R_g}{1 - I_g}$	45. All of these
14. Decreased	46. A uniform wire of a large length should be used
15. Series	47. Current, Voltage and Resistance
16. Has very small internal resistance	48. Avometer
17. Voltmeter	49. Multimeter
18. High resistance in series	50. All of these
$19. R_X = \frac{V}{l_g} - R_g$	51. Potentiometer
20. Increased	52. All of these
21. Parallel	53. Damping
22. Has very high internal resistance	54. Increases
23. Unknown resistance	55 Low resistance in parallel
24. Galvanometer's deflection is zero	56. A high resistance in series
25. Four resistances	57. <u>C</u> BAN
26. $\frac{R_1}{R_2} = \frac{R_3}{R_4}$	58. Meter bridge
27. Voltage	59. Voltmeter
28. Is same	60. Parallel
29. Unknown Resistance	61. A uniform wire of large length
30. Slide-wire bridge	62. Current passing through the coil
31. Wheatstone bridge	63. $R_1 R_4 = R_3 R_2$
32. Wheatstone bridge	
	the same and the s