General Science Model Test Questions 25 With Answers [Physics - 10]

1) Dynamic lift of aeroplane is based on the principle of Bernoulli's theorem.

	2) Glass is less elastic than rubber.									
	3) For a system free fro	om external force	s, linear momentum of the sys	tem remains constant.						
	Which of the above statement is/are wrong?									
	(A) (2) only		(B) Both (2) and (3)							
	(C) (3) only		(D) Both (1) and (2)							
2.	A rocket 100m. long at observer at rest?	rest starts to mo	ve with uniform motion of 0.8	C. What is its length as seen by an						
	(A) 60 cm.	(B) 80 cm.	(C) 100 cm.	(D) 0						
3.	Which of the following	has the highest i	onizing power?							
	(A) X-rays	(B) Alpha rays	(C) Beta rays	(D) Gamma rays						
4.	Sound waves from a so	unding car are								
	(A) Transverse waves		(B) Longitudinal waves							
	(C) Ultrasonic waves		(D) Stationary waves							
5.	Cycle dynamo converts									
	(A) Mechanical energy	into thermal ene	ergy							
	(B) Mechanical energy	into electrical e	nergy							
	(C) Electrical energy int	to light energy								
	(D) Electrical energy in	to thermal energ	у							
6.	Which of these connec	ted in parallel in	a circuit will produce undampe	ed oscillations?						
	(A) R, L (Resistance, Inc	luctance)	(B) R, C (Resistance, capacitar	nce)						
	(C) C, L (Capacitance, I	nductance)	(D) R, L and C (Resistance, Ind	uctance and Capacitance)						
7.	Which of the following	statements are o	correct?							
	In an isothermal proces	SS,								
	a) The temperature o	f the gas remain	constant							
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b) The gas does not take any heat from the surroundings.

c) The internal energy of the gas remains constant. d) The pressure and volume of the gas remains constant. (A) (b) and (c) are correct (B) (c) and (d) are correct (C) (a) and (c) are correct (D) (a) and (d) are correct 8. Rutherford's experiments on scattering of alpha particles by thin foils established that I. most of the mass of an atom is located in its nucleus II. the nucleus of an atom has a positive charge III. the nucleus of an atom contains protons and neutrons IV. the electrons revolve around the nucleus of an atom Choose the right answer: (A) I and III are correct (B) II and III are correct (C) III and IV are correct (D) I and II are correct 9. A Voltameter is an instrument used to measure (A) Voltage (B) E.m.f of a cell (D) Electrochemical equivalent (C) Current The deviation of the charge distribution of a nucleus from spherical symmetry can be estimated by 10. measuring (A) Electric change (B) Electric dipole momet (C) Magnetic dipole moment (D) Electric quadrupole moment 11. A patient was prescribed a lens of +2 dioptre for correcting his vision. What kind of lens does he need? (A) Concave lens of focal length 0.5 m (B) Convex lens of focal length 0.5 m (C) Concave lens of focal length 2.0 m (D) Convex lens of focal length 2.0 m Which of the following physical quantities have same dimensions of ML²T⁻²K⁻¹? 12. (A) Gas constant, Boltzmann constant, Mass (B) Thermal conductivity, Resistivity, Gas constant (C) Pressure, Volume, Avagadro number **Learning Leads To Ruling Page 2 of 17**

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	(D) Thermal capacity, (Gas constant, Blot	tzmann	constant					
13.	An electronic circuit for	for generating alternating current of a desired frequency is							
	(A) Amplifier	(B) Modulator		(C) Detector	(D) Oscillator				
14.	A body weighs 900 kg of earth and half the radio			h. What will be its mas	s in a planet of $\frac{1}{9}$ the mass of the				
	(A) 20.5 kg	(B) 400 kg		(C) 200 kg	(D) 100 kg				
15.	Modulus of elasticity is								
	(A) Strain / stress	(B) Stress / strai	in	(C) Stress x strain	(D) Stress – strain				
16.	When the heat is condi- heat conduction is know	•	lace to a	nother place without a	any medium, then such a process of				
	(A) Conduction of heat	1	(B) Con	vection of heat					
	(C) Vaporization of hea	t	(D) Rad	diation of heat					
17.	The potential at which	a silicon diode sta	arts to c	onduct is					
	(A) 0.3 V	(B) 0.7 V		(C) 1.4 V	(D) 2.8 V				
18.	The angular speed of a	planet revolving r	round th	ne sun depends					
	(A) On the radius of the	e orbit only							
	(B) On the mass of the	planet only							
	(C) On both the radius	and mass of the p	lanet						
	(D) Inversely on the sq	uare root of the c	cube of	the radius of the orbit	only				
19.	If power of a lens is -0.	5 dioptre focal len	ngth and	I type of lens is					
	(A) 2 m, concave		(B) 2 m,	convex					
	(C) 50 cm, concave		(D) 50 n	n, convex					
20.	Find the odd one cut:								
	Related with heat in or	ne action.							
	(A) Conduction	(B) Convection		(C) Absorption	(D) Radiation				
21.	Match the following:								
	(a) Force	1. Watt							

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- (b) Momentum
- 2. Joule

(c) Power

3. Kg.m.s⁻¹

(d) Energy

4. Newton

Codes:

- a b c d
- (A) 4 1 2 3
- (B) 3 2 1 4
- (C) 3 1 2 4
- (D) 4 3 1 2
- 22. Choose the correct one:

If kerosene, water and mercury is taken in a same glass tumbler, arrange the position of them from the top to the bottom of the glass tumbler.

- (A) Mercury, Kerosene, Water
- (B) Kerosene, Water, Mercury
- (C) Water, Mercury, Kerosene
- (D) Kerosene, Mercury, Water
- 23. The percentage of Gold in 22 Carat is
 - (A) 91.67%
- (B) 75%
- (C) 67.91%
- (D) 96.17%
- 24. Match the physical quantities in column I with their SI units in column II and choose the correct answer using the below given codes:

Column - I	Column - II

(a) Pressure

- 1. Kgm⁻³
- (b) Surface tension
- 2. Nm⁻¹
- (c) Surface tension
- 3. Jm⁻²

(d) Density

4. Pa

3

Codes:

- a b c d
- (A) 1 2 4
- (B) 4 2 3 1
- (C) 2 3 4 1
- (D) 3 4 1 2
- 25. Velocity of light is

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	(A) More in air		(B) More in glass					
	(C) Same in air and gla	SS	(D) Nei	ther (A) nor (B)				
26.	Ampere hour is a unit	of						
	(A) Power	(B) Energy		(C) Charge	(D) Current			
27.								
28.	For an adiabatic proces	ss, which is the w	vrong sta	tement?				
	(A) PV = Constant		(Β) PV ^γ	= Constant				
	(C) $TV^{\gamma-1} = Constant$		(D) $\frac{PV\gamma}{T\gamma}$	-1 = Constant				
29.	The meson theory of n	uclear forces was	s propos	ed by				
	(A) Fermi	(B) Yukawa		(C) Lyman	(D) Rutherford			
30.	Kilowatt-hour is the ur	it of						
	(A) Time	(B) Momentum	1	(C) Electric power	(D) Mass			
31.	Which mirror is used a	s a rear view mir	rror in a vehicle?					
	(A) Concave mirror		(B) Con	vex mirror				
	(C) Plane mirror		(D) Liqu	uid mirror				
32.	A proton is tim	es heavier than a	an electr	on.				
	(A) 1000	(B) 183.6		(C) 931	(D) 1836			
33.	The capacitors having capacitance is:	capacitance of 10	0 μF, 5 μ	F and 4 μF are connect	ed in parallel. The effective			
	(Α) 19 μF	(B) 10 μF		(C) 5 μF	(D) 1 μF			
34.	The relationship betwe	een free energy c	change a	nd e.m.f. of a cell is:				
	(A) $\Delta G = -nFE$		(B) ∆H	= -nFE				
	(C) $\Delta E = -nFG$		(D) ∆F =	= nEG				
35.	Short circuit occurs wh	en the resistance	e in the e	external circuit is				
	(A) Infinity	(B) Maximum		(C) Minimum	(D) Zero			
36.	The distance travelled	by light in an yea	ar is					

	(A) 1.5	78 x 10 ¹	⁵ m.			(B) 9.467 x 10 ¹⁵ m.					
	(C) 3.156 x 10 ¹⁵ m.					(D) 9.467 x 10 ⁻¹⁵ m.					
37.	Which	is a defe	ect of the	e eye?							
	(A) Cor	ma		(B) Ech	10		(C) Resonance	(D) Osmosis			
38.	Match	list-I wit	th list-II o	correctly	and sele	ect your	answer using the codes	given below:			
		List-I			List-II						
	(b) Rei	coil velo mote se urce of e Iky way	nsing		 Galax Gun Sun Satel 						
	Codes:										
		a	b	С	d						
	(A)	4	3	2	1						
	(B)	2	4	3	1						
	(C)	3	2	1	4						
	(D)	1	3	2	4						
39.	Lift wa	s invent	ed by								
	(A) E.G	. Otis		(B) J.J.	Thomsor	n	(C) Issac Newton	(D) Marie Curie			
40.	Choose	e the inc	orrect st	atemen	t.						
	(A) No	work is	done if t	he displ	acement	is perpe	endicular to the directio	n of the applied force			
	(B) Fric	tional fo	orce is no	on conse	ervative						
	(C) All	the cent	tral force	es are no	on conse	rvative					
	(D) If th	ne angle	betwee	n the fo	rce and c	displacer	ment vectors is obtuse,	the work done is negative			
41.	Electric	potent	ial is exp	ressed i	n						
	(A) Jou	les / Co	ulomb			(B) Wat	tt / Coulomb				
	(C) Vol	t / Mete	er			(D) Cou	ılomb / Sec				
42.	Which	of the fo	ollowing	physica	l quantiti	ies have	the same dimension?				
	1) Wor	k		2) Pow	er		3) Force	4) Moment of a couple			

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(A) (3) and (4)

(B) (2) and (4)

(C) (1) and (4)

(D) (2) and (3)

43. Match the following:

(a) Impulse

1. Amp-sec.

(b) Latent heat

2. Ohm-m.

(c) Charge

3. J/kg.

(d) Specific resistance

а

4

4. MLT⁻¹

Codes:

d

4

(A)

3

2

4

1

(B) 2 1

1

3

(C)

1

(D)

3

2

44. The vector quantity among the following is:

(A) Pressure

(B) Energy

(C) Speed

(D) Impulse

45. Match the following:

(a) Equation of continuity

1. Surface tension

(b) Bernoulli's theorem (c) Capillarity

2. Viscosity

(d) Stroke's law

3. Conservation of energy

4. Conservation of mass

Codes:

a

d

2

2

1

(A)

b

3

1

C

(B)

1

(C)

3

2

3

4 (D)

2

46. When a cube of ice floating in a beaker of water melts, the level of water in the beaker

(A) Increases

(B) Decreases

(C) Remains the same

(D) Increases initially but then falls down

47. If a particle could move with the velocity of light, the value of its kinetic energy would be

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	(A) Zer	0		(B) 0.5	С	(C) C	(D) ∞
48.	Size of	a nuclei	us deper	nds on			
	(A) Nui	mber of	neutron	ıs	(B) N	umber of protons	
	(C) Nu	mber of	nucleor	ns	(D) N	umber of nucleon	s and electrons
49.	Match	the follo	owing:				
		wton/aı ulomb/r	mp-meto n²	er	 Current de Magnetic d Electric dis Magnetic d 	lensity placement	
	Codes:						
		a	b	С	d		
	(A)	1	2	3	4		
	(B)	4	2	3	1		
	(C)	4	3	2	1		
	(D)	2	3	1	4		
50.	-		_		g train and faci ne train is:	ng the engines. H	e tosses up a coin and the coin falls behind
	(A) Mo	ving bad	ckward v	vith unif	orm speed		
	(B) Mo	ving for	ward wi	th unifor	m speed		
	(C) Mo	ving for	ward an	d sudde	nly losing spee	ed	
	(D) Mo	ving for	ward an	d sudder	nly gaining spe	ed	
51.	Choose	e the co	rect ans	wer fron	n the following	g. The instrument	used to measure the minute distance is:
	(A) Me	ter scale	2		(B) In	ch tape	
	(C) Ver	nier Cal	iper		(D) N	licrometer gauge	
52.	Hydrog	gen filled	d balloor	n flies hig	gh in air becaus	se,	
	a) Wei	ght of th	e balloc	n is muc	h lesser than t	he weight of the a	air it displaces.
	b) Wei	ght of th	ne balloc	n is grea	iter than the w	eight of air it disp	laces.
	c) The	differen	ce betw	een the v	weights doesn'	t give the power t	to lift.

55.

56.

d) Density of air is 14 times greater tha	n hydrogen.				
(A) a is wrong	(B) b is correct				
(C) c is correct	(D) Both a and d is correct				
53. Assertion (A): Electric fish generate	s powerful electric shocks.				
Reason (R): It lives in Orinoco river.					
Now select your answer according to the	ne coding scheme given below:				
(A) Both (A) and (R) are true, and (R) is	the correct explanation of (A)				
(B) Both (A) and (R) are true, but (R) is	not the correct explanation of (A)				
(C) (A) is true, but (R) is false					
(D) (A) is false, but (R) is true					
The listener is at rest with respect to the sources of sound. A wind starts blowing along the line joining the source and the observer which of the following quantities do not change.					
(A) Frequency and wave length	(B) Velocity and time period				
(C) Velocity and wave length	(D) Frequency and time period				
Assertion (A): Rice cooker takes longe	er time to cook at Mount Everest.				
Reason (R): As altitude increases pr	ressure increases.				
Now select your answer according to the	ne coding scheme given below:				
(A)A is true R is false	(B) A is false R is true				
(C) A and R are true	(D) A and R are true				
Pick out the correct statement from the	e following Action and Reaction				
(A) Act on two different objects	(B) Have equal magnitude				
(C) Have opposite direction	(D) Resultant is NOT zero				
Assertion (A): Egg beaters have long l	nandles.				
Reason (R): To produce large turning	ng effect with small force.				
Now select your answer according to the	ne coding scheme given below:				
(A) (A) is correct and (R) is also correct explanation of (A)					

(B) (A) is correct and (R) is wrong explanation of (A)

(C) (A) is wrong and (R) is correct

59.

60.

61.

62.

٠.	ui seie								cparca by
	(D) Bot	th (A) an	ıd (R) are	wrong					
Match the following:									
			trol vehi			1. Ohm	's law		
	an	d potent ectric Iro	etween o tial diffe n Box			-	e's law eigh law oler's effect		
	Codes:								
		а	b	С	d				
	(A)	4	1	2	3				
	(B)	2	3	1	4				
	(C)	3	4	2	1				
	(D)	4	2	1	3				
	Capilla	rity of a	liquid is	due to					
	(A) Its	elastic p	roperty			(B) Gar	vity		
	(C) Its	surface	tension			(D) Its	mass		
	Consid	er the fo	ollowing	stateme	ents:				
	Asserti	on (A):	One ca	nnot he	ar any s	ound in s	space.		
	Reasor	า (R):	In the	absence	of medi	ium, no s	ound waves	can travel	
	Now se	elect you	ur answe	er accord	ding to tl	he codin	g scheme giv	en below:	
	(A) Bot	ch (A) an	d (R) are	individ	ually tru	e but (R)	is not a corr	ect explana	ntion of (A)
	(B) Bot	th (A) an	nd (R) are	e individ	dually tr	ue but (F	t) is the corre	ect explana	tion of (A)
	(C) (A)	is true, l	but (R) is	false					
	(D) (A)	is false,	but (R) i	s true					
	Which	of these	spectra	I line se	ries lie ii	n the nea	ir infrared re	gion of spe	ctrum?
	(A) Lyn	nan		(B) Bal	mer		(C) Pascher	1	(D) Pfund
	Match	the follo	owing:						
	Techno	ology			Scienti	ific Princi	ples		
		roplane Balloor				vton's La noulli's P			

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(c) Rocket

- 3. Law of thermo dynamics
- (d) Steam Engine
- 4. Buoyant Force

Codes:

- d а
- (A) 3 2 4 1
- (B) 1 2 3
- (C) 1
- (D) 2 1 3
- Which of the following are correct? 63.
 - i) Work = Force x Displacement
- ii) Power = Work / Time
- iii) Force = Mass x Velocity
- iv) Acceleration = Velocity / Time

(A) I, II and III

(B) II, III and IV

(C) I, III and IV

- (D) I, II and IV
- Why the wings of an aeroplane are shaped with lower surface being flat and the upper surface being 64. curved?
 - (A) To reduce vibration
 - (B) To make difference in pressure to lift the plane vertically
 - (C) To accommodate more passengers in the wing
 - (D) To strengthen the wheels fitted in wings
- 65. Match the following:

Famous Indian Scientist

Their Contribution

- (a) C.V. Raman
- (b) J.C. Bose
- (d) S.N. Bose
- (c) M.N. Saha
 - d
- (A) 1 4
- 3 (B) 2 1
- (C) 1 2 3 4

- 1. Ultra Short Radio Waves
- 2. Thermal Ionization
- 3. Quantum Statistics
- 4. Inelastic Scattering of Light

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(D) 4 1 2 3

- 66. When the velocity of a body is reduced to half its initial value, then the kinetic energy of the body is reduced by ______ its value.
 - (A) $\frac{1}{3}$ (B) $\frac{1}{4}$ (C) $\frac{1}{5}$
- 67. Match List I with List II:

List-II List-II

- (a) Coulomb's law 1. Magnetic flux
- (b) Gauss law(c) Lorentz's law2. Magnetic force3. Electric flux
- (d) Faraday's law 4. Electrostatic force

Codes:

- a b c d
- (A) 3 4 1 2
- (B) 2 1 4 3
- (C) 4 3 2 1
- (D) 1 2 3 4
- 68. Electro Cardiogram (ECG) is a graphic display of the
 - (A) Time-invariant voltages produced by myocardium
 - (B) Time-invariant current produced by myocardium
 - (C) Time-variant voltages produced by myocardium
 - (D) Time-variant current produced by myocardium
- 69. Match the following:
 - (a) X-rays 1. Henri Becquerel
 - (b) Electron 2. J.J. Thomson
 - (c) Neutron 3. James Chadwick
 - (d) Natural radioactivity 4. Roentgen

Codes:

- a b c d
- (A) 4 1 2 3
- (B) 3 2 4 1

71.

72.

73.

74.

75.

76.

77.

78.

(C)	4	2	3	1					
(D)	2	4	3	1					
The nu	mber of	generali	zed co-c	ordinates	require	ed to describe tl	he postio	n of a simple pendulum is	
(A) 1		(B) 2		(C) 3		(D) 4			
If g is t relatio		eration o	lue to gr	avity and	l R is th	e radius of the ϵ	earth, the	en escape velocity is given by the	he
(A) V _e :	$=\sqrt{2g}$		(B) V _e =	$2\sqrt{g}$		(C) $V_e = \sqrt{2Rg}$.	(D) $V_e = 2 \sqrt{Rg}$	
The re	ation co	nnecting	g Young's	s modulu	s (E) Bu	ılk modulus (K)	and rigidi	ty moudlus (N) is	
(A) $\frac{9}{E} =$	$\frac{3}{N} + \frac{1}{K}$		(B) $\frac{9}{N} = \frac{1}{N}$	$\frac{3}{E} + \frac{1}{K}$		(C) $\frac{9}{N} = \frac{1}{E} + \frac{3}{K}$		(D) $\frac{9}{E} = \frac{1}{N} + \frac{3}{K}$	
The S.I	. unit of	gravitati	onal con	stant G i	S				
(A) N K	g ⁻²		(B) Nm	Kg ⁻¹		(C) Nm ² Kg ¹		(D) Nm ² kg ⁻²	
	ime take 5º C to 5		up of tea	to cool f	from 85	5 ⁰ C to 75 ⁰ C is 1	minute,	then the time taken by it to co	ol
(A) 50	Seconds				(B) Exactly 1 minute				
(C) Mo	re then	1 minute	•		(D) 30 Seconds				
The res	st mass c	of a phot	on is						
(A) Zer	О				(B) Infinity				
(C) Dep	pendent	on its wa	avelengt	h	(D) Dependent on its velocity				
Which	of the fo	llowing	sets hav	e differe	nt dime	ensions?			
(A) Pre	sure, Yo	ung's Mo	odulus, S	tress					
(B) Em	f, Potent	ial differ	ence, El	ectric po	tential				
(C) Hea	at, Work	done, Er	nergy						
(D) Dip	ole mon	nent, Ele	ectric flu	x, Electri	c Field				
Air pre	ssure is	measure	d with tl	ne help o	f				
(A) The	ermomet	er			(B) Nan	nometer			
(C) Me	rcurial B	aromete	er		(D) Wir	nd meter			
The force F acting on a body of mass m is =									

(A) Mass / acceleration (B) (mass) ² x acceleration

	(C) Mas	ss x acce	eleration	1		(D) Acceleration / mass				
79.	The cor	mpound	used in	photogr	aphic fil	m is				
	(A) Agf – Silver fluoride						Cl = Silver Chloride			
	(C) AgB	sr – Silve	er bromi	de		(D) Agl	= Silver lodide			
80.	Which of the following does not belong				t belong	to the s	olar family?			
	(A) Asto	eriods		(B) Con	nets		(C) Planets	(D) Nebulae		
81.	Which	one of t	he follov	ving is n	ot a part	icle in tl	ne nucleus?			
	(A) Neu	utron		(B) Mes	son		(C) Proton	(D) Photon		
82.	Select t	he pair,	which a	re dimei	nsionally	alike ar	mong the following			
	I) Prod	uct of fo	rce and	time						
	II) Prod	luct of m	nomentu	ım and ti	ime					
	III) Product of Ariel velocity and linear density									
	IV) Pro	duct of v	work and	d time						
	(A) I ar	nd II only	/			(B) II ar	nd III only			
	(C) III a	nd IV on	ıly			(D) I an	nd III only			
83.	Arrang	e the fol	lowing i	n the inc	creasing	g order of their penetration powers				
	I. Alpha	a rays		II. Beta	particle	cles III. Gamma rays				
	(A) I – I	I — III		(B) II –	1-111		(C) II – III – I	(D) III – II – I		
84.	Match	list 1 an	d list 22	and ansv	wer thro	ugh the	codes given below:			
		List 1					List 2			
	(a) Infrared spectrometer(b) Polarimeter(c) Barometer(d) Strain gauge					2. Test 3. Stud	sures the purity of su aeroplane surfaces u y of molecular struct sure atmospheric pr	under stress ture		
		а	b	С	d					
	(A)	2	4	1	3					
	(B)	2	3	4	1					
	(C)	3	1	4	2					
				1	2					

85.	Identify particle physicist through the clues given below:									
	1. He won the Nobel Pr	rize in physics for	r the yea	ar 2013 along with Fr	ancois Engl	ert				
	2. He won the Royal Society's Copley medal on 20, July 2015									
	(A) Franck Wikzek		(B) Pet	er.W.Higgs						
	(C) Stephen Hawkings		(D) Jos	eph Taylor						
86.	To hear a distant echo, sound in air = 340 m/s)		ecting th	e sound should atlea	st be at a d	listance (Take velo	ocity of			
	(A) 34 m	(B) 17 m		(C) 51 m	(D) 10	m				
87.	Identify the process(es) from the follow	ing whi	ch involves absorptio	n of heat:					
	I) Condensation II) Sublimation III) Evaporation									
	(A) I and II only	(B) I and III only	y	(C) II and III only	(D) I o	nly				
88.	1 KM(A), 1Light year (B) and 1 Astronon	nical un	it (C) are related as						
	(A) $A = B = C$ (B) $A < B < C$			(C) A < B > C	(D) A >	> B > C				
89.	Mass of an object is 10	kilogram. Its we	ight on	the earth and is space	e respective	ely are				
	(A) 5 N, 10 N	(B) 10 N, 10 N		(C) 10 N, zero N	(D) 98	N, zero N				
90.	What is the non conser	vative force in th	ne follow	ving forces?						
	(A) Frictional force (B) Spring force									
	(C) Gravitational force (D) Force due to Earth's gravity									
91.	Certain metals and compounds carry high electric current and have zero resistance at very low temperatures. The materials possessing this property are known as									
	(A) Resistors		(B) Cap	(B) Capacitors						
	(C) Dielectrics (D) Super conductors									
92.	The property of rotatin	g the plane of vi	bration	of polarized light by o	certain crys	tals is called				
	(A) Polarisation	(B) Diffraction		(C) Optical activity		(D) Interference	į			
93.	Match list-I with list-II	correctly and sele	ect your	answer using the coo	des given b	elow:				
	List-I	List-II								
	(a) Temperature(b) Luminous intensity(c) Electric current(d) Mass	1. Kilog 2. Amp 3. Canc 4. Kelvi	ere dela							

Codes:

a b c d

- (A) 3 4 1 2
- (B) 1 2 4 3
- (C) 4 3 2 1
- (D) 2 1 4 3
- 94. Faraday's law of electrolysis are related to
 - (A) Atomic number of the cation
- (B) Atomic number of the anion
- (C) Equivalent weight of the electrolyte
- (D) Speed of the cation

- 95. Identify the Incorrect pair
 - I) Length Scalar
- II) Velocity
- Vector

- III) Weight
- Scalar
- IV) Momentum Vector

- (A) I
- (B) II
- (C) III
- (D) IV
- 96. The principle of gravitational lenses is
 - (A) Reflection of light

- (B) Refraction of light
- (C) Polarisation of light
- (D) Bending of light around masses
- 97. Liquid helium can reduce the temperature of the coil in MRF Equipment to around
 - (A) 40 K
- (B) 4 K
- (C) 273 K
- (D) 0°C

- 98. Which of the following statements is/are correct?
 - 1) A fuse wire is made of 37% lead and 63% tin
 - 2) A fuse wire is made of 63% lead and 37% tin
 - 3) A fuse wire has high resistance and high melting point
 - 4) A fuse wire has low resistance and high melting point
 - (A) 1, 4 are correct statements
- (B) 2, 3 are correct statements
- (C) 1, 3 are correct statements
- (D) 2, 4 are correct statements
- 99. Rain drop starts to fall down when the velocity of the drop is
 - (A) Equal to terminal velocity
- (B) Greater than terminal velocity
- (C) Lesser than terminal velocity
- (D) Greater than critical velocity

100. Consider the following statements:

Assertion (A): Anemometer is a device used for measuring rainfall.

Reason (R): It has aluminum cups which turn on a spindle.

Now select your answer according to the coding scheme given below:

(A) Both (A) and (R) are true, and (R) is the correct explanation of (A)

(B) Both (A) and (R) are true, but (R) is not the correct explanation of (A)

(C) (A) is true, but (R) is false

(D) (A) is false, but (R) is true