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General Science Model Test Questions 23 With Answers [Physics - 8]

1.	A person is moving too person with a relative		rror with a velocity of 1 m/sec. T	he image will approach the moving
	(A) 0.5 m/sec.	(B) 1 m/sec.	(C) 2 m/sec.	(D) 3 m/sec.
2.	Which of the following	g would be the m	ost suitable for making an elect	romagnet?
	(A) Copper	(B) Tungsten	(C) Soft iron	(D) Steel
3.	An electric bulb has a	filament made of	f	
	(A) Copper	(B) Iron	(C) Lead	(D) Steel
4.	The nucleus of an ator	n contains		
	(A) Protons and neutr	ons	(B) Protons and electrons	
	(C) Neutrons and elect	rons	(D) Neutrons only	
5.	Which of the following	g falls down faste	er in vacuum?	
	(A) Wooden ball			
	(B) Feather			
	(C) Steel ball			
	(D) All will fall down a	t the same spee	d because of no air resistance in	ı vacuum
6.	By keeping the door of	f refrigerator in a	room open, while working	
	(A) The room gets coo	led slightly		
	(B) The room gets mor	e cooled		
	(C) The room gets war	med up slightly		
	(D) The room gets neit	her warmer nor	cooler	
7.	Decibel is a unit to me	asure the		
	(A) Intensity of sound		(B) Intensity if radiation	
	(C) Intensity of light		(D) Intensity of heat	
8.	The Unit of astronomic	cal distance is		
	(A) Angstrom	(B) Kilometre	(C) Nautical mile	(D) Light year

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9.	One important difference between light wave and sound is that the former									
	(A) Is a wave		(B) Ca	(B) Can be reflected						
	(C) Can travel around corner			n travel through empty	space					
10.	The Ventilators of buil	dings are necessa	ary for							
	(A) The entry of outsic	de oxygen								
	(B) Removing carbon inside the building	(B) Removing carbon dioxide exhased and the water vapour evaporated from the bodies of living thing inside the building								
	(C) The entry of outsic	le moisture								
	(D) The entry of light									
11.	What is the range of v	vavelength of visi	ble spe	ctrum?						
	(A) 1300A-8000A	(B) 3900A-760	0A	(C) 2500A-5000A	(D) 8000A-8500A					
12.	Distance of the stars is	s measured in								
	(A) Light year	(B) Decibels		(C) Kilometers	(D) Miles					
13.	The part where the im	nage is formed in	the eye	is						
	(A) Pupil	(B) Blind spot		(C) Retina	(D) Lens					
14.	During the change of	state (e.g. solid to	liquid)	the temperature of the s	oilid					
	(A) Increases	(B) Decreases		(C) Remains constant	(D) Changes					
15.	Amplitude of a sound	wave determines	sits							
	(A) Frequency	(B) Intensity		(C) Phase	(D) Wavelength					
16.	Short sight can be rect	tified by using								
	(A) Concave lens		(B) Co	nvex lens						
	(C) Planoconvex lens		(D) Pla	anoconcave lens						
17.	Which of the following	g rays are produc	ed by ni	uclear changes in the ato	m?					
	(A) Ultraviolet rays		(B) Ga	mma rays						
	(C) X-rays		(D) Inf	rared rays						
18.	The nuclear of an ator	n contains								

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(A) Neutrons and electrons

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	(C) Protons and	d neutrons	([D) Neu	trons only			
19.	The effective re	esistance of the	three ρε σι	ιστο ρ	ο αρε 0.2 Ω , 0.4 Ω and	0.5Ω connected in parallel is		
	(A) $\frac{19}{2}\Omega$	(B) $\frac{2}{19}\Omega$	(C) 1.1 Ω		(D) $\frac{1}{1.1}\Omega$			
20.	In a camera for	a stationary ob	ject the shu	utter s	peed is			
	(A) $\frac{1}{30}$ s	(B) $\frac{1}{60}$ s	(C) $\frac{1}{125}$ s		(D) $\frac{1}{250}$ s			
21.	When water so	lidifies to ice						
	(A) Heat is abso	orbed	(E	B) Hea	t is released			
	(C) Temperatur	e increases	([D) Tem	perature decreases			
22.	The wavelength	n range of infrar	ed rays is					
	(A) 10 ⁷ m to 7.8 x 10 ³ m			(B) 10^{-7} m to 7.8×10^{-3} m				
	(C) 10 ⁻³ m to 7.8 x 10 ⁻⁷ m			(D) 10^3 m to 7.8×10^7 m				
23.	Raindrops assu	me spherical sh	ape due to					
	(A) Gravitational force		(E	3) Surf	ace tension			
	(C) Centrifugal	force	([D) Cen	tripetal force			
24.	The frequency	range of ultraso	und is					
	(A) Below 20 kH	Нz	(E	B) Belo	ow 2 kHz			
	(C) Above 20 ki	Hz	([D) Abo	ve 20,000 kHz			
25.	When travelling	g at the speed o	f light, one	can re	each the moon in			
	(A) 5 seconds	(B) 2 so	econds		(C) 5 minutes	(D) One minute		
26.	When the veloci mass	city of a particle	travelling v	with a	velocity nearly equal to	the velocity of light, increases, its		
	(A) Increases	(B) Ded	creases		(C) Remains the same	(D) None of these		
27.	The type of ray	that appears to	originate o	outside	e the earth is			
	(A) X-ray	(B) Cos	smic rays		(C) Alpha ray	(D) Beta rays		
28.	In fluorescent t	ubelight						
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(B) Protons and electrons

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	(A) Visible light is converted into visible light							
	(B) Visible light is conve	erted into ultravi	olet ligh	t				
	(C) Ultraviolet light is converted into ultraviolet light							
	(D) Ultraviolet light is	converted into v	isible lig	ht				
29.	The radius of curvature	e of concave mirr	or is 20	cm. Its focal length is				
	(A) 5 cm	(B) 10 cm		(C) 20 cm	(D) 40 cm			
30.	The electrical energy co	onsumed by a 3 l	kW stove	e which is switched on fo	or 6 hours is			
	(A) 2 units	(B) 18 units		(C) 0.5 units	(D) 500 units			
31.	Which of the following	are primary colo	ours?					
	(A) Red, Green and Vio	let	(B) Blue, Cyan and Magenta					
	(C) Red, Cyan and Blue		(D) Red, Green and Blue					
32.	The relation between o	coefficient of line	ar expa	nsion ($lpha$) and the coeffic	cient of volume expansion (γ) is			
	(A) α = 3 γ	(B) $2\gamma = \alpha$		(C) $\gamma = 2 \alpha$	(D) $\gamma = 3\alpha$			
33.	The radio-isotope used	to check the eff	ective fu	unctioning of heart is				
	(A) I ¹³¹ (B) Na ²	(C) Fe ⁵⁵		(D) P ³²				
34.	Metals are electroposit	tive because the	У					
	(A) Accept electrons		(B) Doi	nate electrons				
	(C) Are neutral		(D) Hav	ve electrons				
35.	A body goes at 2 m/s towards north and after 10 seconds at 2 m/s toward east. Its acceleration is							
	(A) $\sqrt{2} \text{ ms}^{-2}$	(B) $2\sqrt{2} \text{ ms}^{-2}$		(C) $0.2\sqrt{2} \text{ ms}^{-2}$	(D) 2 ms ⁻²			
36.	A motor boat is travelli	ing with a speed	of 30 ms	s^{-1} . If the force on its due	e to water is 500N, its power is			
	(A) 150 kW	(B) 15 kW		(C) 1.5 kW	(D) 1500 kW			
37.	The weight of a body is	maximum at						
	(A) Pole of the earth		(B) Equ	lator of the earth				
	(C) Centre of earth		(D) Jus	t above the earth				
38.	A patient's temperatur Celsius scale is	e ranged from 9	6.8° F to	105.8° during his illness	s, the temperature recorded in			

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(A) 16° to 41°

(B) 26° to 41°

(C) 46° to 51°

(D) 36° to 41°

39. In a open organ pipe

(A) All harmonics are present

- (B) Only odd harmonics are present
- (C) Only even harmonics are present
- (D) Only fundamental note is present
- 40. Match list-I with list-II correctly and select your answer using the codes given below:

List-I

List-II

- (a) Millikan
- (b) J. J. Thomas
- (c) Chadwick
- (d) Neils Bohr

- 1. Charge mass ratio of electron
- 2. Quantum model of H₂ atom
- 3. Charge of electron
- 4. Neutron

Codes:

- a I

d

2

3

1

- (A) 3
- 1
- (B) 1
- 3
- 2
- (C) 2
- 4
- 1

2

- (D)
- 3
- 41. TV antenna elements are made up of
 - (A) Aluminium

4

- (B) Copper
- (C) Tin
- (D) Zinc

42. Consider the following statements:

Assertion (A) : Rusting of iron is quicker in sea water than in river water.

Reason (R) : Salinity helps in carrying current.

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
- 43. Which of the following is used for crystal structure studios?

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	(A) Infrared spectroscopy			(B) Raman spectroscopy				
	(C) Atomic emission spectroscopy		(D) X	(D) X- ray diffraction				
44.	The scientist who first sent electromagnetic waves to distant places is							
	(A) James Clark Maxwell			leinrich Hertz				
	(C) Thomas Alva	Edison	(D) B	Baird				
45.	In the electrical	circuit of a house th	e fuse is i	used				
	(A) To regulate t	the current	(B) T	(B) To load				
	(C) As safety de	vice	(D) A	As step – down device	e			
46.	Hexadecimal is	Hexadecimal is the number system with base						
	(A) 10	(B) 16 (C)	3	(D) 2				
47.	The radius of an	atom is						
	(A) 10 ⁻¹² m	(B) 10 ⁻¹⁵ m		(C) 10 ⁻¹⁶ m	(D) 10 ⁻¹⁰ m			
48.	The rays similar to X – rays but of small			ler wavelength that are given off by radioactive substance are				
	(A) α - rays	(B) β - rays		(C) γ - rays	(D) Cosmic rays			
49.	In which one of	In which one of the following place is electricity generated from hydel power?						
	(A) Neyveli	(B) Ennore		(C) Tuticorin	(D) Mettur			
50.	In an LCR circuit	which will give a ph	ase lead	to current than volta	ge?			
	(A) L (inductance	e)	(B) C	(B) C (capacitance)				
	(C) R (resistance	2)	(D) A	All together				
51.	A drop of water	is spherical due to						
	(A) Surface tens	sion	(B) L	(B) Low pressure				
	(C) Air resistance		(D) V	(D) Viscosity of water				
52.	The frequency o	of ultrasound wave is	typically	/pically				
	(A) Above 20 KHz		(B) A	(B) Above 20,000 KHz				
	(C) Below 20 KH	(C) Below 20 KHz		(D) Below 2 KHz				
53.	Consider the fol	lowing statements:						
	Assertion (A):	A rocket that is sent	to space	has to given an extr	a force at certain distance from earth	١.		
	Reason (R): At a certain distance from earth, earth is encircled by a ring of vacuum							

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

- (A) (A) and (R) are correct, and (R) is the not correct explanation of (A)
- (B) Both (A) and (R) are correct, but (R) is the correct explanation of (A)
- (C) (A) is correct, but (R) is not correct
- (D) (A) is not correct, but (R) is correct
- 54. Match list-I with list-II correctly and select your answer using the codes given below:

List-I List-II

- (a) Relationship between electricity and magnetism
- (b) Velocity of light
- (c) Radio waves
- (d) Structure of atom

- 1. Neils Bohr
- 2. Ampere
- 3. Foucault
- 4. Hertz

Codes:

- $a \qquad b \qquad c \qquad d$
- (A) 1 3 4 2
- (B) 3 4 2 1
- (C) 2 3 4 1
- (D) 4 3 1 2
- 55. Fuel cells are used in
 - (A) Aircraft (B) Electric locomotives
- (C) Space crafts
- (D) Submarines

- 56. The velocity of electromagnetic waves is
 - (A) 3 x 10⁸ ms⁻¹
- (B) 330 ms⁻¹
- (C) $30 \times 10^8 \text{ ms}^{-1}$
- (D) $3 \times 10^{-8} \text{ ms}^{-1}$

- 57. Raindrops assume spherical shape due to
 - (A) Gravitational force
- (B) Surface tension

(C) Centripetal force

- (D) Centrifugal force
- 58. The unit for solid angle is
 - (A) Radian
- (B) Steradian
- (C) Metre
- (D) No unit
- 59. The substance which undergoes the process of sublimation is
 - (A) Wax
- (B) Ice
- (C) Sugar
- (D) lodine

60. Which of the following is liquid at room temperature?

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	(A) Iodine	(B) Bromine	(C) Invar	(D) Duralumin
61.	Inertia of a body has di	rect dependence o	on	
	(A) Area	(B) Volume	(C) Mass	(D) Velocity
62.	The radio isotope used	in the treatment of	of cancer is	
	(A) Radio cobalt	(B) Radioactive iron	
	(C) Radio iodine	(D) Radioactive sodium	
63.	The path of a projectile	e is		
	(A) Ellipse	(B) Straight line	(C) Parabola	(D) Circle
64.	The minimum distance	between the soun	nd source and the object to pro	oduce clear echo is
	(A) 5 m.	(B) 10 m.	(C) 17 m.	(D) 25 m.
65.	Unit of intensity of sou	nd is		
	(A) Farad	(B) Decibel	(C) Ohm	(D) Pascal
66.	The volume of water is	minimum at		
	(A) 0°C (B) 23°	C (C) 4°C	(D) 100°C	
67.	With the help of histog	ram one can prepa	are	
	(A) Frequency polygon		B) Frequency curve	
	(C) Frequency distribut	cion (D) All of these	
68.	Among the following p	olymers, the strong	gest molecular forces are pres	ent in
	(A) Elastomers	(B) Natural fibres	
	(C) Thermoplastic poly	mers (D) Thermosetting polymers	
69.	An optical path differe	nce of $\frac{\lambda}{2}$ is equal to	a phase difference of	
	(Α) 2 π	(B) 3π	(C) π	(D) $\frac{\pi}{2}$
70.	is used	to find the depth o	of the sea.	
	(A) Spectrometer	(B) Spherometer	(C) Fathometer	(D) Ammeter
71.	TTL is			
	(A) Transistor-Transist	or Logic (B) Transmission-Transmission	Logic
	(C) Transistor-Transmis	ssion Logic (D) None of these	
72.	Consider the following	statements:		

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	Assertion (A):	The st	ructure of the in	terior of tl	ne Earth is dedu	iced wit	h the help of	seismic wa	ves.
	Reason (R):	The 's'	waves travel in	solid, liqui	id and air while	ʻp' wva	es travel only	in solid.	
	Now select you	ur answe	er according to th	he coding	scheme given b	elow:			
	(A) Both (A) an	d (R) are	e true, and (R) is	the correc	ct explanation o	of (A)			
	(B) Both (A) an	d (R) are	e true, but (R) is	not the co	rrect explanation	on of (A)		
	(C) (A) is true,	but (R) i	s false						
	(D) (A) is false,	but (R)	is true						
73.	The electric cha	arge for	electrode depos	sition of 1	gram equivaler	nt of a su	ubstance is		
	(A) 1 ampere p	er secoi	nd	(B) 96,50	00 coulomb per	second			
	(C) 1 ampere p	er one h	nour	(D) Char	ge on one mole	of elec	etrons		
74.	For short sight,	, we use							
	(A) Concave le	ns	(B) Convex len	S	(C) Glass plate		(D) Prism		
75.	A tunnel is dug	g from o	ne end to the oth	her end of	the earth thro	ugh its c	entre. If a sto	ne is dropp	ed in it, it
	(A) Executes SHM			(B) Com	(B) Comes out from the other end				
	(C) Stops at the	e centre		(D) Stop	s at same distar	nce			
76.			opposite directi eed of one of th						
	(A) 27 kmph.		(B) 72 kmph.		(C) 58 kmph.		(D) 50 kmph		
77.	Movement of a	a substa	nce against a coi	ncentratio	n gradient is ca	lled			
	(A) Passive tran	nsport		(B) Activ	e transport				
	(C) Diffusion			(D) Osm	osis				
78.	When the spee	ed of a b	ody is doubled, i	its kinetic	energy become	!S			
	(A) Doubled		(B) Half	(C) Quad	druple	(D) One	e-fourth		
79.	When a body n	noves w	ith uniform velo	city its acc	celeration is				
	(A) Doubled		(B) Trpled	(C) Zero		(D) Ma	ximum		
80.	The principle o	of Dynan	no was discovere	ed by					
	(A) Sir Humphr	y Davy		(B) Mich	(B) Michael Farady				
	(C) Albert Einst	tein		(D) Max	Planck				
81.	the electric fitt	ings are	earthed so that						

	(A) Electricity may not leak							
	(B) There may be a smo	ooth flow of elec	tricity					
	(C) Current may pass to	o the earth in ca	se of a s	hort circuit	, without caus	sing any harm		
	(D) To prevent short cir	cuit						
82.	When common salt is n	nixed with ice, th	ne meltii	ng point				
	(A) Is lowered		(B) Is ra	aised				
	(C) Remains the same		(D) Is fi	rst lowered	and then rais	ed		
83.	The weight of iron is me	ore after rusting,	, becaus	e				
	(A) It has expanded into	o a greater volun	ne					
	(B) Rust contains twice as many iron atoms							
	(C) Of the additional oxygen it contains							
	(D) Iron undergoes reduction							
84. A galvanometer can be converted into ammeter by connecting								
	(A) Low resistance in p	arallel	(B) Low	resistance	in series			
	(C)High resistance in pa	arallel	(D) Hig	h resistance	e in series			
85.	If c is the velocity of light is	ht and r is the fre	equency	of the phot	on, the mome	entum associat	ed with the photon	
	(A) hγc (B) hγ	/ c	(C) γ / c	(D) ηχ / γ			
86.	The propagation of ligh	it through optica	l fibres i	s based on				
	(A) Diffraction		(B) Ref	raction				
	(C) Total internal reflec	ction	(D) Ref	lection				
87.	A disadvantage of the l	aser printer is						
	(A) It is quieter than an	impact printer	(B) The output is of the lower quality					
	(C) It is very slow		(D) No	ne of these				
88.	Nuclei with equal numb	ber of neutrons a	are					
	(A) Isotopes	(B) Isobars		(C) Isomer	S	(D) Isotones		
89.	The bifocal lens was inv	vented by						
	(A) Galileo	(B) Benjamin F	ranklin	(C) Snell	(D) Ales	sandro volta		
90. Learni	When oil is poured on t	the surface of wa	ater its s	urface tens	ion	Page	e 10 of 11	

	(A) Increases		(B) Decreases							
	(C)Remains constant		(D) Increases first and then decreases							
91.	A blotting paper absorb	s ink because of								
	(A) Surface tension	(B) Viscosity	(C) Cohesive force	(D) Capillary action						
92.	X-ray cannot pass throu	gh								
	(A) Glass	(B) Gold	(C) Carbon	(D) Oxygen						
93.	A generator is a device	which converts								
	(A) Electrical energy int	o mechanical en	ergy							
	(B) Electrical energy into	o light energy								
	(C) Mechanical energy	(C) Mechanical energy into electrical energy								
	(D) Magnetic energy int	o electrical ener	gy							
94.	Klystron produces									
	(A) Gamma rays	(B) Infrared rays	(C) Radio waves	(D) Microwaves						
95.	The S.I. unit of power of	f a lens is								
	(A) Metre	(B) Dioptre	(C) Watt	(D) Calorie						
96.	A large number of free	electrons exist ir								
	(A) Insulator	(B) Semi-Condu	ctor (C) Non-Metals	(D) Metals						
97.	The excess of pressure i	inside a spherica	l bubble of radius r of a liqui	d of surface tension T is						
	(A) $\frac{T}{r}$ (B) 0	(C) $\frac{2T}{r}$	(D) $\frac{4T}{r}$							
98.	The refractive index of	diamond is								
	(A) 1 (B) 1.33	(C) 1.6	(D) 2.42							
99.	The digital camera is an	input device ma	inly used to image	S						
	(A) Capture	(B) Convert	(C) Connect	(D) None of these						
100.	Radioactivity was disco	vered by								
	(A) Pierre Curie	(B) Madam Curi	e (C) Rutherford	(D) Henri Becquerel						