General Science Model Test Questions 20 With Answers [Physics - 5]

1.	The smallest	planet in	the solar	system is

	(A) Venus	(B) Earth	(C) Uranus	(D) Pluto
2.	The device used to me	easure voltage, current	and resistance is called	
	(A) An A.F. Amplifier	(B) A	detector	
	(C) A galvanometer	(D) A	multimeter	
3.	The radio isotope used	d for locating brain tum	or is	
	(A) Phosphor	(B) Cobalt	(C) lodine	(D) Sodium
4.	Electric bulbs are filled	d with the gas		
	(A) Oxygen	(B) Carbon di oxide	(C) Argon	(D) Nitrogen
5.	X-rays travel with the	velocity of		
	(A) Light	(B) Sound	(C) Positive rays	(D) Alpha rays
6.	A loudspeaker convert	ts		
	(A) Electrical energy in	nto sound energy		
	(B) Sound energy into	electrical energy		
	(C) Small sound into a	large sound		
	(D) None of these			
7.	The transverse wave r	nature of light was prov	ed by	
	(A) Interference	(B) Diffraction	(C) Polarisation	(D) Refraction
8.	Electric iron takes a lo	ng time to cool because	e of	
	(A) Greater emissivity	(B) L	esser emissivity	
	(C) Less absorptive po	wer (D) N	Nore absorptive power	
9.	Density of the matter	is defined as		
	(A) Mass / Volume	(B) N	1ass x volume	
	(C) Volume / mass	(D) N	lone of these	
10. Learn	The resultant upthrust ing Leads To Ruling	t on a body partly imme	ersed in liquid acts throug	h Page 1 of 11

	(A) The centre of gravity	(B) The	e metacentre		
	(C) The centre of pressure	(D) No	(D) None of these		
11.	A transverse wave travel alc	ong z – axis. The par	ticles of the medium mu	st move along	
	(A) z – axis (B) :	x – axis	(C) y – axis	(D) in x-y plane	
12.	Joule – Thomson cooling is				
	(A) Temperature dependen	t			
	(B) Temperature independe	nt			
	(C) Dependent on the molec	cular weight of the	gas		
	(D) Dependent on the total	mass of the gas			
13.	The principle of action of po	oints is used in			
	(A) Capacitors (B)	Inductors	(C) Resistors	(D) Lightning arresters	
14.	A jet engine works under th	e principle of			
	(A) Mass (B)	Energy	(C) Linear momentum	(D) Angular momentum	
15.	To find the temperature of t	the sun, the followi	e following law is used		
	(A) Charles law	(B) Ste	fan's fourth power law c	of radiation	
	(C) Boyle's law	(D) Kir	chhoff's law		
16.	The blood circulation in mus	scles id due to			
	(A) Thin density of blood	(B) Vis	(B) Viscosity of blood		
	(C) Capillary action	(D) Ab	(D) Absorption		
17.	Radio carbon dating is used				
	(A) Find diseases	(B) Fin	(B) Find the age of relics		
	(C) Find the carbon in the at	mosphere (D) No	ne of these		
18.	Frequency modulation is mo	ore advantageous t	ageous than amplitude modulation because		
	(A) There will be no distorti	ion (B) Dis	tortion will be maximum		
	(C) No internal noises produ	ıced (D) Int	ernal noises can be filtere	ed	
19.	A thin film of liquid is enclos	sed between into gl	ass plates. It is difficult to	o separate the plates on account of	

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	(A) Viscosity	(B) Fraction		(C) Surface tension	(D) Atmospheric pressure	
20.	Sound is not audible in	n moon. Why?				
	(A) There is no plantat	ion in moon	(B) Mo	oon does not have atm	osphere	
	(C) Moon is smaller that	an earth	(D) No	one of these		
21.	Transmission of heat f	rom the sun to th	he earth	n is by		
	(A) Conduction	(B) Convection	I	(C) Radiation	(D) Absorption	
22.	The output of a microp	phone is				
	(A) A.C. Signal	(B) D.C. Curren	nt	(C) Sound	(D) Speech	
23.	Breeder reactor is in					
	(A) Trombay	(B) Rajasthan		(C) Kalpakkam	(D) Tarapur	
24.	Electrons carry					
	(A) A negative charge		(B) A p	positive charge		
	(C) No charge		(D) Bo	th charge		
25.	An electric fan workin	g at constant spe	eed con	sumers electric energy	because	
	(A) Of induction	(B) Of its inerti	a	(C) Of friction	(D) None of these	
26.	The defect of short sig	ht is corrected by	у			
	(A) Concave lens	(B) Convex lens	S	(C) Spherical lens	(D) Cylindrical lens	
27.	Mirage is due to the pl	nenomenon of				
	(A) Reflection		(B) Re	fraction		
	(C) Total internal refle	ction	(D) Dif	ffraction		
28.	A person can jump hig	her at the moon'	's surfac	te than on the earth's s	urface. Since,	
	(A) The moon's surface	e is rough				
	(B) The temperature o	f the moon is les	S			
	(C) The moon has no a	tmosphere				
	(D) The value of accele	eration due to gr	ravity o	n the moon's surface is	less	
29.	Rising or setting sun appears reddish due to the fact that					
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General Science Prepared By www.winmeen.com (A) The sun is colder at sunrise and sunset (B) Diffraction causes red to reach the earth at sunrise and sunset (C) Reflection of light rays takes place at sunrise and sunset (D) Scattering of light rays takes place at sunrise and sunset 30. The nature of fuse wire is (A) High resistance and low melting point (B) High resistance and high melting point (C) Low resistance and high melting point (D) Low resistance and low melting point 31. Heat waves are otherwise known as (B) Ultra – violet waves (A) Infra – red rays (C) Solar radiation (D) X-rays 32. The time taken by the light from the nearest star α - centauri to reach the earth is (A) 4.3 years (B) 3.1 years (C) 2.2 years (D) 1 year 2 months When an object is transferred from the moon to the earth 33. (A) Its weight decreases and the its mass increases on the earth (B) Its weight increases and the its mass decreases on the earth (C) Its weight and mass remain constant on the earth (D) Its weight increases and its mass remains constant on the earth On adding salt to water, the boiling point and freezing point of water will 34. (A) Increase (B) Increase and decrease respectively (C) Decrease (D) Decrease and increase respectively 35. Vehicle tyres are inflated properly (A) To ensure smooth running (B) To allow the vehicle to take more load (C) To avoid skidding and to minimize friction (D) To go fast and save fuel 36. Discovery of x - ray was made by

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	(A) Madam Curie		(B) William Bragg			
	(C) Michael Fa	araday		(D) Roentgen		
37.	When a body is negatively charged by f			friction, it		
	(A) Loses elec	trons		(B) Loses neutrons		
	(C) Gains elec	trons		(D) Gains neutrons		
38.	The unit of ele	ectrical conduct	ivity is			
	(A) Mho	(B) O	hm	(C) Faraday	(D) Coulomb	
39.	Find the odd r	man out				
	(A) Hayley	(B) Hale – Bo	рр	(C) Huyakutake	(D) Shoemaker – Levy	
40.	If the diamete	er of a blood ves	sel is hal	ved , then the speed of	blood flow will increase by	
	(A) 2	(B) 3	(C) 4	(D) 6		
41.	What is the va	alue of 0° absolu	ite in Fah	renheit scale?		
	(A) -40°	(B) -459.4°		(C) -100°	(D) -300°	
42.	Analyse the st	atements and c	hoose th	e correct answer.		
	Assertion (A):	A particle mo	ves alon	g a circle.		
	Reason (R-I):	Speed is unif	orm.			
	(R-II):	Velocity is ch	anging.			
	(A) R-I is corre	ect, R-II is wrong				
	(B) R-I is wron	g, R-II is correct				
	(C) R-I and R-I	i are wrong				
	(D) Both are c	correct				
43.	Force = mass x acceleration is got from					
	(A) Newton's	II nd law		(B) Faraday's law		
	(C) Joule's law	I		(D) Coulomb's law		
44.		lance has an ob pan. Then the l			ts ion its right pan. Now air is blown fast	
	(A) Come dow	/n (B) G	o up	(C) Not be disturbed	(D) Oscillate at first	
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45.	Neighboring two planets to our earth are				
	(A) Venus and Mars		(B) Mars and Jupiter		
	(C) Mercury and Satur	n	(D) Uranus and Neptune		
46.	Our earth while it revo	olved round the su	n, moves in one hour, a distand	ce of	
	(A) 1 lakh km	(B) 10,000 km	(C) 1,000 km	(D) 1000 miles	
47.	The full shape of a rair	nbow is			
	(A) Arc of a circle	(B) Circle	(C) Ellipse	(D) Parabola	
48.	When light enters a le	ns (glass) there is a	a change in		
	(A) Wave length	(B) Frequency	(C) Velocity	(D) Both A and C	
49.	Atom bomb works on	the principle of			
	(A) Nuclear fission	(B) Nuclear fusic	on (C) Newton's law	(D) Faraday's law	
50.	Hydrogen bomb involv	ves the principle of			
	(A) Nuclear fission	(B) Nuclear fusio	on (C) Newton's law	(D) Coulomb law	
51.	The oil in the wick of a	n oil lamp rises up	due to		
	(A) Pressure difference	2	(B) Capillary action		
	(C) Low viscosity		(D) Gravitational force		
52.	Name the lightest part	ticle			
	(A) Newton	(B) Electron	(C) Proton	(D) Radon	
53.	Which of the following	substances has th	ne highest specific heat?		
	(A) Iron	(B) Copper	(C) Mercury	(D) Water	
54.	The surface tension of	a liquid with incre	ase of temperature		
	(A) Increases	(B) Decreases	(C) Remains constant	(D) None of these	
55.	A 100 watt bulb will co	onsume one unit o	f electrical energy in		
	(A) 1 hour	(B) 10 hours	(C) One day	(D) 60 hours	
56.	When a common salt i	is mixed with ice, t	he freezing point		
	(A) Is lowered		(B) Is raised		
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	(C) Remains unaffect	ed	(D) First is lowered and then	raised	
57.	Current always flows				
	(A) High potential to	low potential	(B) Low potential to high pot	ential	
	(C) Both of these		(D) None of these		
58.	For a simple pendulu	m, the graph betw	veen I and T will be a		
	(A) Circle	(B) Parabola	(C) Straight line	(D) None of these	
59.	A solar eclipse occurs when the				
	(A) Earth comes betv	veen the sun and t	he moon		
	(B) Moon is at right a	ingle to earth			
	(C) Moon comes bet	ween the sun and	the earth		
	(D) None of these				
60.	Recording of sound v	vaves on tapes wa	s first invented by		
	(A) Ampere	(B) Bacquerel	(C) Fleming	(D) Poulson	
61.	A transformer is used	d to			
	(A) Increase DC volta	ge	(B) Increase or decrease AC	voltage	
	(C) Decrease DC volta	age	(D) Convert DC into AC		
62.	The surface tempera	ture of sun is			
	(А) 2,000 К	(B) 6,000 K	(C) 4,000 K	(D) 10,000 K	
63.	The unit of moment	of force is			
	(A) Joule	(B) Watt	(C) Metre	(D) Newton-metre	
64.	Which one of the fol	lowing is a unit of	energy?		
	(A) Watt	(B) Joule	(C) Newton	(D) Newton/metre	
65.	The substance used a	as a semi-conducto	or is		
	(A) Carbon	(B) Boron	(C) Germanium	(D) Oxygen	
66.	Orbital velocity of a s	atellite close to th	e earth is		
	(A) 8 km/sec	(B) 10 km/sec	(C) 11 km/sec	(D) 12 km/sec	
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67.	The period of revo	lution of a satellite		
	(A) 200 sec	(B) 400 sec	(C) 500 sec	(D) 5000 sec
68.	The unit of co-effic	ient of viscosity is		
	(A) N s m ⁻²	(B) N m ⁻²	(C) J	(D) W
69.	Osmotic pressure of	of dilute solutions o	can be compared to	
	(A) Gas law		(B) Newton laws	
	(C) Laws of reflection	on	(D) Laws of Diffusion	
70.	Radiometer is used	1		
	(A) In radios		(B) To detect Infra-red rad	diations
	(C) In radiology dep	partment	(D) To detect radium	
71.	TV-waves are othe	rwise known as		
	(A) Micro waves	(B) Radio wa	ves (C) UV-waves	(D) Cosmic waves
72.	Voltameter is			
	(A) Voltage measu	ring Instrument	(B) Used to measure curre	ent
	(C) Used to measur	re resistance	(D) An electrolytic device	
73.	In nuclear reactors	graphite rods are	used	
	(A) To absorb neut	rons	(B) To reduce the speed o	f neutrons
	(C) As fuel		(D) To arrest the radiation	I
74.	Which of the follow	ving does not fit in	to the group?	
	(A) Fatman	(B) Kamini	(C) Purnima	(D) Apsara
75.	Find the odd man o	out		
	(A) Newton	(B) Einstein	(C) Young	(D) Little Boy
76.	The engine power	of the glides plane	is	
	(A) 0 H.P	(B) 100 H.P	(C) 1000 H.P	(D) 10,000 B.H.P
77.	Laws of planetary r	motion was given b	ογ	
	(A) Newton	(B) Galileo	(C) Aristotle	(D) Kepler
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78.	Which of the following devices is used for digital display in electronic calculator?					
	(A) Photo diodes	(B) Zenes diode	es	(C) LEDs	(D) None of these	
79.	27°C can be express	ed as				
	(A) 250 k	(B) 200 k		(C) 400 k	(D) 300 k	
80.	Which one of the fol	lowing is used as th	ne modera	ation in Nuclear re	eactor?	
	(A) Platinum	(B) Thorium		(D) Uranium	(D) Graphite	
81.	Ultrasonic waves hav	e frequency				
	(A) Above audible ra	nge	(B) Belov	w audible range		
	(C) Equal to audible r	ange	(D) None	e of these		
82.	A simple microscope	has				
	(A) Concave lens		(B) Planc	o concave lens		
	(C) Convex lens		(D) None	e of these		
83.	There is no atomic po	ower station at				
	(A) Kalpakkam	(B) Narora		(C) Tarapur	(D) Trombay	
84.	Kilowatt is the unit o	f				
	(A) Energy	(B) Power		(C) Charge	(D) Voltage	
85.	The radiation with hi	ghest energy is				
	(A) UV-ray	(B) IR-ray		(C) X-ray	(D) Visible ray	
86.	An electric motor is a	a device which				
	(A) Converts electric	al energy into med	chanical e	nergy		
	(B) Converts mechan	ical energy into ele	ectrical en	nergy		
	(C) Converts mechan	ical energy into po	tential en	iergy		
	(D) None of these					
87.	Tesla is the unit of					
	(A) Magnetic intensit	ÿ	(B) Magr	netic moment		
	(C) Magnetic inducti	on	(D) None	e of these		
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General Science Prepared By www.winmeen.com 88. The electro magnetic radiation travel with a velocity of (A) 3 x 10° m/s (B) 3 x 10⁸ n (C) 330 m/s (D) None of these Filament of an electric bulb is made of 89. (A) Iron (D) None of these (B) Tungsten (C) Copper 90. The device that is used to determine the depth of the sea is (A) Radar (B) Sonar (C) Fathometer (D) Hydrometer Absolute zero is the temperature of 91. (D) -273°C (A) 0°C (B) 0°F (C) 372°C 92. The discovery of electricity is attributed to (A) Michael Faraday (B) W. Gilbert (D) G.S. Ohm (C)A.M. Ampere If the surface water lake is just going to freeze, what will be the temperature of water at the bottom? 93. (a) 0° C (B) More than 4°C (C) 4° C (D) More than 4° C 94. The flying of birds is a consequence of Newton's (A) First law (B) Second law (C) Third law (D) Both Second and Third law Who discovered that the earth moves round the sun? 95. (A) Newton (B) Galileo (C) Aristotle (D) Copernicus 96. The value of gravitational constant is (A) 3.766 x 10⁻¹¹Nm² (B) 6.673 x 10⁻¹¹Nm²kg⁻² (C) 9.8 ms⁻² (D) 980 Nm² 97. The element that has same atomic number and atomic weight is (A) Hydrogen (C) Nitrogen (D) Helium (B) Oxygen 98. Which one of the following is non-divisible? (A) Nucleus (B) Photon (C) Proton (D) Atom 99. Gas Law was given by

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	(A) Boyle	(B) Ostwald	(C) Coulomb	(D) Motor
100.	Alternating curren	t is converted into direct	current by	
	(A) Rectifier	(B) Dynamo	(C) Transformer	(D) Motor