## General Science Model Test Questions 27 With Answers [Physics - 12]

1.	The plastic hylon is best described as									
	(A) Po	olymeris	sed hyd	rocarbo	n	(B) Po	lyamide			
	(C) Po	lyester				(D) Po	lyurethane			
2.	In common emitter circuit, the value					voltage gain is				
	(A) M	aximuı	m			(B) Mi	nimum			
	(C) Sa	me as i	n other	configu	ıration	(D) Ze	ro			
3.	The mass number of a nuclear is equal to the number of									
	(A) El	ectrons	it conta	ains		(B) Protons it contains				
	(C) No	eutrons	it conta	ins		(D) Nu	cleons it o	contains		
4.	The po	The potential energy of a particle executing simple harmonic motion is the maximum at its								
	(A) Extreme position									
	(B) Mean position									
	(C) The midpoint of mean and extreme position									
	(D) O	ne third	of amp	litude f	rom the	mean po	osition			
5.	The distance between two consecutive nodes in a stationary wave is									
	(A) λ/	2		(B) λ			(C) 3λ/2		(D) $\lambda/4$	
6.	Match	List I v	with Lis	t II:						
		List-I					List-II			
	(b) Car comes to stop 2					2. Elec 3. Buo	tional Forc tric Force yant Force vitational F			
	Codes:									
		a	b	c	d					
	(A)	1	2	3	4					
	(B)	3	2	4	1					

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	(C)	4	1	2	3			
	(D)	2	3	1	4			
7.	Absol	ute zer	o of ten	nperatui	re means			
	$(A) 0^{\circ}$	, C		(B) 0	° F	(C) -273	3º C	(D) -273° F
8.	When	light e	enters fr	om one	medium	to another then v	which chara	acteristic is not changed?
	(A) C	olour o	f light			(B) Velocity of	light	
	(C) W	avelen	gth of l	ight		(D) Frequency	of light wa	aves
9.	Which	ı law is	called	as the la	aw of per	riods?		
	(A) K	epler's	First La	aw		(B) Kepler's Se	cond Law	
	(C) K	epler's	s Third	Law		(D) Newton's L	aw of Grav	vitation
10.	Projectile motion is a combination of horizontal motion with constant and vertical motion with constant							
	(A) A	ccelera	ition, ve	locity		(B) Velocity, ac	cceleration	ı
	(C) D	isplace	ment, v	elocity		(D) Velocity, di	splacement	t
11.	Nucle	ar force	e is					
	(A) C	harge d	lepende	nt				
	(B) Sp	oin inde	ependen	ıt				
	(C) B	oth cha	rge and	spin in	depende	nt		
	( <b>D</b> ) <b>S</b> ]	pin der	pendent	but ch	arge ind	lependent		
12.		late the → freq		sions of	Planck's	s constant 'h', us	ing the equ	ation $E = h\gamma$ , where $E \rightarrow energy$
	(A) M	ILT <sup>-1</sup>		(B) N	$IL^2T^{-1}$	(C) ML	$^{-1}T^{-2}$	(D) $ML^{-2}T^{-1}$
13.	In Tra	ınsmiss	sion Ele	ctron M	licroscop	e (TEM)	is used	to magnify the objects.
	(A) Li	ight		(B) C	Optical le	nses (C) Elec	etrons	(D) Scanner
14.	The bar		rent of	the trans	sistor is l	$T_B = 50 \mu A$ and co	ollector cur	rrent is $I_C = 25$ MA determine the
	(A) 50	00		(B) 3	00	(C) 250		(D) 100

15.	Which of the following will radiate heat to the large extent?					
	(A) White polished su	ırface	(B) White	rought surface		
	(C) Black polished surface		(D) Black rought surface			
16.	The converse of Seebeck effect is					
	(A) Thomson's effect		(B) Joule'	s effect		
	(C) Magnetic effect		(D) Peltie	r effect		
17.	AC Frequency of 100	KHz to 100 M	Hz is requi	red for		
	(A) Satellite purpose			(B) Domestic	purpose	
	(C) Transmission of	audio and vid	eo signals	(D) (A) and (H	3)	
18.	A Conducting polyme	LED is bein	ng used in or	f mobile phones.		
	(A) Battery	(B) Speakers	(C	) Mics	(D) Display	
19.	In the following rays	which is not in	volved in R	adio Activity		
	(A) X-rays	(B) α-rays	(C	) β-rays	(D) γ-rays	
20.	The times taken by the light to reach the earth from the sun is					
	(A) 10 seconds	(B) 50 second	s (C	) 100 seconds	(D) 500 seconds	
21.	Which of the following	ng has maximur	m value of	surface tension?		
	(A) Water	(B) Alcohol	(C	) Ether	(D) Mercury	
22.	Cherenkov counters a	re				
	(A) Mechanical count	ers	(B) Scintillation counters			
	(C) Ruby lasers		(D) Coolid	dge tubes		
23.	The vertical upgradien	nt of temperatu	re in the atı	mosphere is called	as	
	(A) Inversion of temp	erature	(B) Saturated temperature			
	(C) Lapse rate		(D) Latent heat			
24.	Which of the following	ng phenomena i	s responsible for the production of shadow?			
	(A) Interference of lig	ght	(B) Diffraction of light			
Learnii	(C) Polarization of light (D) Rectilinear propagation of light rning Leads To Ruling Page 3 of 14					4

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25.	1 horse power =						
	(A) 646 W	(B) 684 W	(C) 746 W	(D) 846 W			
26.	Dimensions of mome	entum are					
	(A) ML <sup>-2</sup> T	(B) MLT <sup>-1</sup>	(C) $ML^{-2}T^{-2}$	(D) $ML^2T^{-1}$			
27.	Technique used in ma	ass production	of integrated chips is				
	(A) Photography		(B) Atomic force microscopy				
	(C) Photo lithograph	hy	(D) Holography				
28.	A satellite is orbiting	the earth, if its	distance from the earth is	increased, then			
	a) its angular velocity	would increas	e				
	b) its linear velocity v	would increase					
	c) its angular velocity	would decrease	se				
	d) its time period wor	uld increase					
	(A) (a) and (b) are co	rrect	(B) (a) and (c) are correct	et			
	(C) (b) and (c) are co	rrect	(D) (c) and (d) are corr	ect			
29.	A copper wire has a r	resistance R. Or	n doubling its length the s	pecific resistance will			
	(A) Be halved		(B) Be doubled				
	(C) Become four time	es	(D) Remain the same				

30. Why tungsten is used in Bulbs?

(A) Natural source of Light

(B) Easy to Bend

(C) Melting point is high

(D) It absorbs heat

31. Colours of thin film is because of the phenomena of

(A) Diffraction of light

(B) Refraction of light

(C) Interference of light

(D) Polarisation of light

32. The ground state energy of the electron in the Hydrogen atom is

(A) -13.6 eV

(B) -3.41 eV

(C) +13.6 eV

(D) -10.5 eV

33. Which of the following instruments has lowest resistance?

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	(A) Move Coil Gavar	nometer (I	B) 0 – 20A Ammeter			
	(C) 0 – 10A Ammete	er (I	O) Voltmeter			
34.	The Quantum energy	in a lattice with e	h elastic wave is called			
	(A) Photon	(B) Phonon	(C) Electron	(D) Proton		
35.	When diameter of the	objective lens of	a telescope increases, the	resolution of the telescope		
	(A) Decreases	(1	B) Increases			
	(C) Remains the same	e (I	(D) Depends on the focus length of the lens			
36.	Who produced and te	sted the first hydr	ogen bomb?			
	(A) Edward Teller a	nd Stanislaw Ula	Ulam (B) Robert Oppenheimer			
	(C) Fukui and Miyam	noto	(D) D.A.Gla	ser		
37.	The relative humidity	of the atmospher	re is determined with a			
	(A) Hydrometer	(B) Hygrometer	(C) Hypsometer	(D) Hydrophone		
38.	Which of the following	ng is preferred for	accelerating electrons?			
	(A) Betatron	(B) Cyclotron	(C) Van de Graft Ge	enerator (D) Synchrotron		
39.	Raman effect is due to	o				
	(A) Interference of lig	ght (I	B) Polarization of light			
	(C) Diffraction of light	ht (I	D) Scattering of light			
40.			mm in diameter is often us pper is $1.72 \times 10^{-8} \Omega$ m.	sed. Find the resistance of a 35.0		
	(A) 18 Ω	(B) 1.8 Ω	(C) $0.18\Omega$	(D) $0.018 \Omega$		
41.	Which breaking syste	em is most efficier	nt at high speed?			
	(A) Electric breaking	(1)	B) Magnetic breaking			
	(C) Drum breaking	(I	D) Disc breaking			
42.	In a grating the total is	number of rulings	per unit length is N, the re	esolving power of a grating for an		
	(A) nN	(B) N/n	(C) n/N	(D) $n^2N$		

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43.		elocity on the i		l thrown	with a spec	ed of 200 ms <sup>-1</sup> at an	angle of 60° with the horizontal, at it
	(A) 10	00 ms <sup>-1</sup>		(B) 20	00 ms <sup>-1</sup>	(C) 400 ms <sup>-1</sup>	(D) 173 ms <sup>-1</sup>
44.	Pick o	ut the c	orrect r	easons:			
	Oil is	mixed v	with pet	rol for t	wo wheeler	s due to the followi	ng reason(s):
	2) It 1	remove	s heat ir		o engines.	the spark plug.	
	(A) (1)	), (2) ar	nd (3)		<b>(B</b> )		
	(C) (2)	) and (3	) only		(D)	(1) and (3) only	
45.	Match	the fol	lowing:				
	(b) Lit (c) Tu	<ul><li>(a) Osmium</li><li>(b) Lithium</li><li>(c) Tungsten</li><li>(d) Silver</li></ul>			viest Metal htest metal	of electricity g point -3300°C	
	Codes	:					
		a	b	c	d		
	(A)	1	2	3	4		
	(B)	2	1	4	3		
	<b>(C)</b>	2	3	4	1		
	(D)	3	4	1	2		
46.	A man		in the r	evolvin	g chair with	stretched hands, si	addenly bend his hands, the angular
	(A) De	ecreases	S	(B) In	creases	(C) Zero	(D) Constant
47.	Which	of the	followi	ng state	ments is/are	wrong?	
	1) Lig	ht year	is a unit	t of time	e		
	2) Ast	ronomi	cal unit	(AU) is	a unit of di	stance	
	3) Pars	sec is a	unit of	mass			
	(A) (2)	) and (3	3)	(B) (1	) and (3)	(C) (3) only	(D) (1) only

48.	The principle used in	n lightning condu	actors is	S		
	(A) Corona discharge		(B) Self-induction			
	(C) Mutual induction		(D) Ele	ectro magnetic ind	uction	
49.	Relation between ele	ectric field and po	otential			
	(A) dV = -E/dx	(B) $dV = -dx/F$	Ξ	(C) $E = -dV/dx$	(D) $E = -dx/dV$	
50.		stance between t	the plate	es be reduced to ha	acitance of 10 $\mu$ F. What will be the alf and the space between them is	
	(A) 100 μ F	(B) 200µ F		(C) 1µ F	(D) 400µ F	
51.	1 Wh (Watt hour) is	equal to				
	(A) $36 \times 10^5 \text{ J}$	(B) $36 \times 10^4 \text{ J}$		(C) 3600 J	(D) 3500 J	
52.	The resistivity range	of semi conduct	ors is			
	(A) $10^{-6} - 10^{-8} \Omega \text{ m}$		(B) 10	$^8-10^{14}\Omega$ m		
	(C) $10^5 - 10^8 \Omega \text{ m}$		(D) 10	$^{-2}$ – $10^4 \Omega$ m		
53.	The unit of electro c	hemical equivale	ent			
	(A) kg ms <sup>-1</sup>	(B) kg m <sup>-3</sup>		(C) kg m <sup>-1</sup>	(D) kg c <sup>-1</sup>	
54.	rms value of alternat	ing current is				
	(A) 0.707 Io	(B) 70.7 Io		(C) 0.636 Io	(D) 63.6 Io	
55.	In an acceptor circui	t, the value of im	npedanc	e and current		
	(A) Impedance min	imum, current	maxim	um		
	(B) Impedance maxi	mum, current mi	inimum	ı		
	(C) Both impedance	and current mini	imum			
	(D) Both impedance	and current max	imum			
56.	The frequency range	of visible light i	in electi	romagnetic spectru	ım is	
	(A) $4 \times 10^{14} \text{Hz} - 1 \times 10^{14} \text{Hz}$	$10^{13}$ Hz	(B) 8 x	$\times 10^{14} Hz - 4 \times 10^{14}$	<sup>4</sup> Hz	

(C)  $3 \times 10^{11} \text{Hz} - 1 \times 10^9 \text{Hz}$  (D)  $3 \times 10^7 \text{Hz} - 3 \times 10^4 \text{Hz}$ 

57.	Which are true stater	Which are true statements?						
	I) The dark lines found in solar spectrum is called as Fraunhoffer lines.							
	II) The central core of sun is called as chromoshpere.							
	III) Fraunhoffer lines are used identify elements present in sun's atmosphere.							
	(A) I and II are true	(B	) II and III are true					
	(C) I and III are tru	ie (D	(D) I, II and III are true					
58. Total energy of the electron $(E_n)$ is half of the potential energy $(E_k)$ ?				rgy (E <sub>p</sub> ). What will be the kinetic				
	$(\mathbf{A})$ $-\mathbf{E}_{\mathbf{n}}$	$(B) + E_n$	(C) -2 E <sub>n</sub>	$(D) + 2 E_n$				
59.	•			flected when passed through the tesla. Calculate the velocity of the	<b>;</b>			
	(A) $10^3$ m/s	(B) $10^5 \text{ m/s}$	(C) $10^7$ m/s	(D) $10^9 \text{ m/s}$				
60.	In Sommerfield atom	n model which one	of the following ato	omic orbit is an elliptical orbit				
	(A) 1s (B) 2s	(C) 2p	(D) 3d					
61.	Consider the following statement and choose the correct answer from the codes given below:							
	Assertion (A): According to relativity, the mass of the body changes with velocity.							
	Reason (R): Electrons accelerated in cyclotron with very high velocity acquire increased mass.							
	(A) (A) alone is correct and (R) is incorrect							
	(B) (A) and (R) are correct and (R) is the correct explanation of (A)							
	(C) (A) and (R) are incorrect							
	(D) (A) and (R) are c	correct but (R) is no	ot the correct explan	ation of (A)				
62.	If one milligram of a	substance is fully of	converted into energ	gy, then the energy produced is				
	(A) $9 \times 10^{16} \text{ J}$	(B) 1 J (C	$S) 9 \times 10^{10} J$	(D) $3 \times 10^8 \text{ J}$				
63.	The energy liberated	in proton-proton cy	ycle is					
	(A) 26.7 eV	(B) 26.7 MeV	(C) 14.7 MeV	(D) 14.7 eV				
64.	Arrange the following particles in the increasing order of their rest masses							
64.	Arrange the followin	g particles in the in	creasing order of th	eir rest masse	s			

I) Proton II) Electron III) Neutron IV) Photon (A) II - IV - III - I(B) IV - II - I - III(C) IV - II - III - I(D) II - IV - I - III65. A sinusoidal carrier wave of amplitude 10 mV is modified by an audio signal wave of amplitude 6 mV. What is the amplitude of Upper Side Band (USB)? (A) 0.6 mV(B) 0.3 mV(C) 3 mV (D) 6 mV The principle of fiber optical communication is? 66. (A) Reflection (B) Radio reflection (C) Total internal reflection (D) Transmission Which one of the following pairs is not correctly matched regarding satellite communication? 67. (A) Geostationary satellite : 36,000 Km (B) Commercial satellite : 6 GHz – 4 GHz (C) First man-made satellite : Aryabhatta (D) Satellite communication : Micro wave link repeater 68. When a current carrying conductors is placed along the direction of the magnetic field, the force acting on it is? (B) F = 0(A) F = BI 1(C)  $F = BI l \cos \theta$ (D)  $F = BI 1 \tan \theta$ 69. The ratio of Ne and He gases used in He – Ne laser is (B)  $10^6:1$ (A) 4:1(C) 1:4(D)  $1:10^6$ 70. What is the order of Boiling point of amines? (A) Secondary amine > Primary amine > Tertiary amine (B) Secondary amine < Primary amine < Tertiary amine (C) Secondary amine > Primary amine > Tertiary amine (D) Primary amine > Secondary amine > Tertiary amine 71. Glass is an example for (A) Gaseous state (B) Liquid state (C) Solid state (D) Vitreous state

72.	Which is used as a power source in long mission space probes?						
	(A) U-235	(B) U-232	(C	c) Pu-238	(D) Pu-241		
73.	Which one is used as	fuel in Nuclear	reaction in	n power plants?			
	(A) $92U^{235}$	(B) $92U^{236}$	(C	$(1)$ 92 $U^{239}$	(D) $92U^{234}$		
74.	The device based on	Wheatstone's b	oridge is				
	(A) Wattmeter		(B) Potentiometer				
	(C) Bridge rectifier		(D) Meter	r bridge			
75.	Which of the stateme	ents are correct	or incorrect	t?			
	I) Electrostatic shielding is the process of isolating a certain region of space from external field.						
	II) It is based on the fact that electric field inside a conductor is infinity.						
	(A) I, II correct		(B) I, II incorrect				
	(C) I incorrect II corr	rect	(D) I correct II incorrect				
76.	State which of the following statements are true?						
	I) Electric dipole kept in a uniform electric field will experience a torque						
	II) Electric field is equal to negative gradient of potential						
	III) Electric field is a	scalar quantity					
	(A) I, II are correct		(B) II, III	are correct			
	(C) III, I are correct (D) I, II, III are correct						
77.	In the case of insulators, as the temperature decreases, resistance						
	(A) Decreases	(B) Increases	(C	) Remains constant	t (D) Becomes zero		
78.	A toaster operating a	t 240 V has a re	esistance of	120 $\Omega$ , the power	is		
	(A) 400 W	(B) 2 W	(C	c) 480 W	(D) 240 W		
79.	The period of rotation	n of a charged p	particle in a	uniform magnetic	field does not depend upon		
	(A) Charge	(B) Magnetic	induction	(C) Velocity	(D) Mass		
80.	Which of the following	ng statements a	re true?				
Learni	Current sensitivity of a galvanometer can be increased by arning Leads To Ruling Page 10 of 14						

81.

82.

83.

84.

85.

86.

<ul> <li>Increasing the number of turns in the coil</li> <li>Increasing the magnetic induction</li> <li>Decreasing the area of the coil</li> <li>Increasing the couple per unit twist of the suspension wire</li> </ul>							
(A) I, II	$(A) I, II \qquad \qquad (B) II, III \qquad \qquad (C) III, IV \qquad \qquad (D) I, IV$						
	In a coil of radius 10 cm having 100 turn carrying a current of 1 A, the magnitude of the magnetic field at the centre of the coil is						
(A) $2\pi \times 10^{-4} \text{ T}$	(B) $4\pi \times 10^{-4} \text{ T}$	(C) $3\pi \times 10^{-6} \text{ T}$	(D) $5\pi \times 10^{-6} \text{ T}$				
In a step up transfor	mer, the transformer r	radio k is					
(A) $k < 1$	(B) $k = 1$	(C) $k > 1$	(D) k = 0				
Pick out the wrong	statement. In transforr	mer energy losses					
(A) Hysteresis loss	can be minimized by u	using silicon steel					
(B) Copper loss can	n be minimized by us	sing thin wires					
(C) Eddy current los	ss can be minimized b	y stelloy					
(D) Copper loss can	be minimized by usin	ng thick waves					
In an ac circuit with	a capacitor only, the	current will be					
(A) Leasing voltage	by $\pi$ phase difference	e					
(B) Leading voltag	e by $\pi/2$ phase differ	ence					
(C) Lagging behind	the voltage by $\pi$ phas	e difference					
(D) Lagging behind	(D) Lagging behind the voltage by $\pi/2$ phase difference						
Which of the follow	Which of the following rays are travelling with velocity of light?						
I) α - rays	II) β - rays	III) γ - rays	IV) X – rays				
(A) I and II	(B) II and III	(C) II and IV	(D) I and IV				
If $\lambda_x$ , $\lambda_{uv}$ , $\lambda_m$ are wa following is correct	•	ıv rays and microwave	s respectively then which of the				
(A) $\lambda_x = \lambda_{uv} = \lambda_m$	(B)	$\lambda_{\rm x} > \lambda_{\rm uv} > \lambda_{\rm m}$					

(D)  $\lambda_{uv} > \lambda_m = \lambda_x$ 

(C)  $\lambda_x < \lambda_{uv} < \lambda_m$ 

87.	Atomic spectrum should be						
	(A) Pure line	spectrum	(B) Emission band spectrum				
	(C) Absorptio	on line spectrum	(D) Absorption b	(D) Absorption band spectrum			
88.	The wave nur	mber for Balmer series	at long wavelengt	h limit			
	(A) R	(B) R/4	(C) 3 R/24	(D) 5	R/36		
89.	Which of the following statements are true?						
	I) The cathode rays are a stream of electrons						
	II) The elliptical orbits of electron in the atom were proposed by de Broglie						
	III) Canal ray	s can produce fluoresco	ence.				
	(A) I and II	(B) II and III	(C) I, II a	and III	(D) I and III		
90.	Which of the	following statements a	re true?				
	I) Photoelectric effect can be explained on the basis of quantum theory of light.						
	II) The photoelectric effect is instantaneous process.						
	=	ce large number of phock function material.	toelectrons the car	thode of pho	otosensitive material is coated		
	(A) I, II	(B) II, III	(C) I, III		(D) I, II, III		
91.	The number of	of frames of references	in the universe is				
	(A) Zero	(B) $10^5$	(C) Infin	ity	(D) 9 billion		
92.	The equation	showing relation between	een currents in a ti	ransistor cir	cuit is		
	$(\mathbf{A}) \; \mathbf{I}_{\mathbf{E}} = \mathbf{I}_{\mathbf{B}} + 1$	$\mathbf{I}_{\mathbf{C}}$	(B) $I_C = I_B + I_E$				
	(C) $I_B = I_E + I$	lc .	(D) $I_E = I_B - I_C$				
93.	Which of the	following diodes is ope	erated in a reverse	bias made?			
	(A) P – N jun	ction	(B) Zener				
	(C) Tunnel		(D) LED				
94.	Since the inpu	at impedance of an idea	al operational amp	olifier is infi	nite		
	(A) Its input	current is zero					

	(B) Its output resistance is high	l					
	(C) Its output voltage becomes independence of load resistance						
	(D) It becomes a current control	olled device					
95.	In super let FM receiver if the incoming frequency is $150 \times 10^3$ KHz, what will be the frequency produced by local oscillator?						
	(A) 160.7 Hz (B) 160.	7 MHz	(C) 160.7 KHz	(D) 167 KHz			
96.	In a broadcasting studio a 1000 KHz carrier is modulated by an audio signal of frequency range $100-5000$ Hz. What are the maximum and minimum frequencies of USB and LSB?						
	(A) 1005 Hz, 1000 Hz and 999	.9 Hz, 995 H	<b>I</b> z				
	(B) 10.05 MHz, 10.001 MHz a	nd 9.999 MF	Hz, 9.95 MHz				
	(C) 1005 KHz, 1000.1 KHz ar	(C) 1005 KHz, 1000.1 KHz and 0.9999 KHz, 995 KHz					
	(D) 1.005 KHz, 1.0001 KHz ar	nd 0.9999 KH	Hz, 0.995 KHz				
97.	Which of the following act as t	he propellen	ts for rocket motors use	ed in space vehicles?			
	(A) Liquid O <sub>2</sub> (B) Liqu	iid H <sub>2</sub>	(C) Liquid N <sub>2</sub>	(D) Liquid propylene			
98.	Which one of the following sta	tements is co	orrect?				
	(A) Entropy of the University r	emains cons	tant, energy of the univ	verse remains constant			
	(B) Entropy of the Universe ter	nds to a maxi	mum, energy of the un	iverse tends to a maximum			
	(C) Entropy of the universe to	ends to a ma	aximum, energy of the	e universe remains constant			
	(D) Energy and entropy of the	universe tend	ds to a minimum				
99.	The atmosphere is mainly heater	ed by which	one of the following?				
	(A) Direct rays of the Sun		(B) Reflected solar ra	diation			
	(C) Long wave terrestrial rad	liation	(D) Burning of organic material				
100.	Two spheres of radii $r_1$ and $r_2$ c $q_1$ and $q_2$ be their individual characteristics.	· ·	by a thin wire and a to	otal charge q is given to them. If			
	(A) $q_1 = q_2$	(B) q <sub>1</sub>	$/\mathbf{q}_2 = \mathbf{r}_1/\mathbf{r}_2$				
	(C) $q_1/q_2 = r_1/r_2$ (D) $q_1 = r_1/q$ and $q_2 = r_2/q$						

101.

The nuclei  ${}_6C^{13}$  and  ${}_7N^{14}$  can be described as

## **General Science**

(A) PSLV

(A) CGS

105.

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(D) 1.1 V

(D) Xenon

(D) Rohini

(D) HKS

(A) **Isotones** (B) Isobars (C) Isotopes of carbon (D) Isotopes of nitrogen

102. The potential barrier of germanium PN Junction is

(A) 1.1 eV (B) 0.7 V (C) **0.3 V** 

103. Which of the following Noble gas is used for Inflating Aeroplane tyres?

(A) Helium (B) Neon (C) Argon

104. The first Indian Communication satellite put in geo – stationary orbit is

(B) Aryabhatta

The system of unit accepted universally was

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(C) MKS (or) SI units

(C) APPLE

106. 'Bunsen burner' works, based on the principle of

(B) FPS

(A) De Morgan theorem (B) Bernouli's theorem

(C) Surface theorem (D) Photo conductivity