Section-A(MCQ's)

VK. 1	Choose the Correct	answer for each forr	n the aiven poti	ons:			
(i)	The unit of force in S.I unit is						
	(a) Kilogram	(b) Newton	(c) Metre	(d) Second			
(ii)	Clockwise torque is considered as torque.						
	(a) Positive	(b) Negative	(c) Unit	(d) Zero			
(iii)	The number of protons in the nucleus is called						
	(a) Mas number number	(b) Avogadro numbe	er (c) Atomic nu	mber (d) Nuclear			
(iv)	The lightest particle in an atom is						
	(a) Neutron	(b) Electron	(c) Proton	(d) Deutron			
(v)	The speed of sound in	air at normal tempera	ature and pressu	re is m/s.			
	(a) 336	(b) 672	(c) 712	(4) 785			
(vi)	The standard metre	is made of and	is placed at the	e international bureau of			
	weight and meausre in severes near paris.						
	(a) Platinium and cop		on and copper	(c) Iron and iridium			
	(d) Platinium and iridium						
(vii)	Energy possessed by a body due to its position is called						
	(a)Potential energy (b) Mechanical energy (c) kinetic energy						
	(d) None of these		our criorgy	(o) turicus cricigy			
(viii)		er is between the fulcr	ım and woight t	he class of lever is called			
(*****/		or io bottwoor the falor	um and weight, t	ne class of lever is called			
	(a) First	(b) Second	(a) Thind	7.10 k)			
(ix)	447/50/47/50/00 (m) 57/2		(c) mira	(d) None of these			
(1//)	In Case of satellites the necessary acceleration is provided by (a) Frictional force (b) Gravitational froce (c) Coulombs force (d) None of						
	(a) Frictional force	(b) Gravitational frod	e (c) Coulombs	force (d) None of			
()	these						
(x)	The eye and the camaer are similar because the image formed in both is						
	(a) Real and inverted	(b) Real and errect	(c) Virtual and	linverted			
	(d) Virtual and errect			ORENICE-CONFORMS			
(xi)	The speed of light is _	m/s.		7			
	(a) 3 x 10·	(b) 3 x 10	(c) 1.86 x 10 ⁴	(d) 3 x 10°			
(xĺi)	Elasticity of a substance depends on its:						
		(b) Size	(c) Nature	(d) None of these			
(xiii)	(a) Temperature (b) Size (c) Nature (d) None of these All the rays, parallel to the principal axis, falling on the concave mirror, pass after						
	reflection through its						
	(a) Pole	(b) Principal focus	(c) Centre of o	sun/at:iro			
	(d) None of these	(=)1 Intolparioods	(c) Certife Of C	ui valui e			
(xiv)	If the force acting ona body is doubled, then the acceleration produced is_						
		aj ia acabica, dicii	and according allon	produced is,			

7	(a) Quarter	(b) Half	(c) Same	(d) Double					
(v)	Dr. Abdul Salar	n was awarded Nobel I	Prize for his work on _	·					
	() Electronics	(b) Radiation		n					
	(d) Grand unific	cation theory		a in the ati					
xvi)	The reason for bursting water pipes during very cold weather is that: (a) Water pipe contract when cooled (b) Water expands on freezing								
	(c) Ice expands	contract when cooled	18 18 18 18 18 18 18 18 18 18 18 18 18 1	(d) None of these					
lwwii\	The galvanom	connecting a wire of low							
XVII)	msistance	cter can be convented	into an ammotor by						
	In series	(b) In parallel	(c) With 220 volts	(d) In combined way					
2,			tion-B)					
15 22(15)	(Short Answer) Answer any EIGHT of the following questions .Each question carries 05								
loto:		EIGHT of the follow	ing questions .Eac	n question carries 05					
a 2	what is Physics? Enlist some important branches of physics.								
.2 .3	What is meant by anomalous expansion of water? Describe its effects on every day								
7.	life.								
₽.4	Define reflection of light State the laws of reflection.								
.5	What are the main defects of human eye? How are they removed?								
2.6	How is rainbow formed?								
.7	Define momentum. Explain the law of conservation of meomentum with the help of								
7	examaples.								
8.6	How can a vector be determined if its rectangular components are known?								
.9	State Coulombs law and define the unit of charge.								
.10	Describe the construction of a simple pully.								
.11	Describe strees and strain.								
.12	The time taken by an electron to complete one rotation about its nucleous is 0.5 x 10								
	seconds. Convert it into minutes, hourse and microseconds.								
0.13	Explain vibrations, time period and frequency in sound.								
	Section-C								
		(Descript	ive Answer)						
Note:	Answer any 1	WO of the following	questions. Each qu	estion carries 14(7 + 7)					
	marks.	**************************************							
Q.14	(a) How can determine the mass of earth by applying law of Gravitation?								
Q.15	(a) Define Hook's law and Young's modulus.								
(b)	A series circuit consisting of three resistors havign resistence 40 ohms. 50 ohms and								
	20 ohms respectively, is connected across each resister.								
Q.16	(a) Define centre of gravity. How would you locate the centre of gravity of an irregular								
	piece of metal	sheet?							
(b)	Aboy of mass	50 kg on motor bike is r	moving with 20 m/s . W	hat is his kinetic energy?					
4									