BOARD OF INTERMEDIATE EDUCATION, KARACHI INTERMEDIATE EXAMINATION, 2016 (ANNUAL)

	te: 03.0 0 a.m. t	5.2016 o 9:50 a.m.		<u>PHYSICS PAPER – I</u> (Science Groups)							Max. Marks: 17 Time: 20 minutes			
The correct answers are highlighted in red colour.			<u>(MULTIP</u>	<u>SECTION 'A'</u> MULTIPLE CHOICE QUESTIONS) – (M.C.Qs.) –							Code No:PH-17			
<u>N(</u>	<u>DTE:</u>	i) ii) iii) iv)	This section cons Each question ca Do not copy the number of the qu The code of your The use of scient	rries one part quest estion an question	mark. ions in y d its part. paper is	our answ to be wri	erbook. V	Write onl	Ly the ans s in the b	swer <u>in ful</u> beginning o	<u>ll</u> against of the ans	the prop		
1.	Select t	ct the most appropriate answer for each from the given options:												
	i)		on is always: ter than static fric than static fricti			*	equal to zero	static fri	iction					
	ii)	The dimensions *	ons of G are: ${}^{-1}L^3T^{-2}$		*	$M^2 L^2 T$	Γ^{-2}	*	$M^{-1}L$	$^{2}_{4}T^{-2}$	*	MLT ⁻	2	
	iii)	* in th	ne direction of vel	ing, the direction of acceler ocity irection of velocity			ration is: * *				lirection of velocity on of velocity			
	iv)		hange of angular ear momentum	momentu *	m is also <mark>Torque</mark>		IS: *	Force		*	Energy			
	v)	acceleration	, equal to twice of will be: half	f the radiu	us of the o One fou		ove the si	urface of Four tir		n, the value	e of gravi One nir			
	vi)	The range of * 1 H	audible sound is: z – 19 Hz 00 Hz – 24000 Hz			*		- <mark>20000 I</mark> Iz - 5000	Hz					
	vii)		ns of interference fraction	in thin fi *		versed du oherence	ie to:	*	Refract	tion	*	Phase r	eversal	
	viii)	The magnify	ing power of a ler	ns of foca	l length	$\frac{1}{2}m$ is:								
			optre	*	2 diopti	res	*	50 diop	tres		*	100 dio	ptres	
	ix)		$\frac{1}{l} = 2d \sin \theta$	g's Law: *	$m\lambda = c$	$d\sin\theta$	*	2 <i>mλ</i> =	$= d \sin \theta$	9	*	2mλ =	$= 3d\sin\theta$	
	x)		between the prine rture	cipal focu *		optical c		alled:	Focal l	length	*	Principa	al axis	
	xi)	If \hat{i} , \hat{j} and	\hat{k} are unit vectors	s, then \hat{k}	$\hat{i} \times \hat{j}$	is equal t								
		* zero	*	one		*	\hat{j}		*	\hat{k}				
	xii)	The angle be	tween centripetal	accelerat	ion and ta	angential	accelera	tion in ci	rcular m	otion is:				
		* 180) ^o *	0^{o}		*	90 ^o		*	45°				
	xiii)		azir was written b -Al Haitham	y: *	Al Razi		*	Abu-Re	ehan Al I	Beruni	*	Jabir bi	n Hayyan	
	xiv)	One radian is $* l^o$	equal to:	*	75.3°		*	57.3°		*	0.017°			
	xv)		t hour is equal to: $5 \times 10^6 J$		3.3×10) ⁹ J	*	3.9×1	$0^6 J$		*	3.6×1	$0^9 J$	
	xvi)	Two vibratin * Ech	g bodies, having s o	slightly di *	ifferent fi <mark>Beats</mark>	requencie	es, produe *	ce: Resona	nce	*	Polariza	tion		
	xvii)	If $\overline{A} \Box \overline{B} = 0$, $\overline{A} \times \overline{B} = 0$ and $\overline{A} \neq 0$, then vector \overline{B} is:												
			al to \overline{A}	*	Parallel	to \overline{A}		*	Perpen	dicular to	\overline{A}	*	zero	
					XXXX	XXXXXXX-								