## For Failure, Improvement of Grade & Candidates Only or ranure, Improvement of Grane & Additional Subject Candidates Only

## **BOARD OF INTERMEDIATE EDUCATION, KARACHI**

**INTERMEDIATE EXAMINATION, 2016 (ANNUAL)** 

## <u>PHYSICS PAPER – I</u>

(Science Groups)

Max. Marks: 17 Time: 20 minutes

The correct answers are highlighted in red colour.

i)

9:30 a.m. to 9:50 a.m.

**NOTE:** 

xvii)

form:

Circle

## **SECTION 'A'** (MULTIPLE CHOICE QUESTIONS) – (M.C.Qs.)

This section consists of 17 part questions and all are to be answered.

Each question carries one mark.

Write this Code No. in the Answerscript.

		iii) iv)	number The cod	of the que	estion and question	d its part. paper is	to be writ	ten <u>in bo</u>	ld letters	in the be	ginning o	of the ans	werscript.
1.	Select th	et the most appropriate answer for each from the given options:											
	i)	The max	ximum numbe 3	er of beats *	/sec. that 5	the hum	an ear ca	n detect i <mark>7</mark>	s:	*	9		
	ii)	The pow	ver of a conve 10 cm	x lens is 4	4 diopter. *	Its focal 20 cm	length is	: *	25 cm		*	50 cm	
	iii)	A car tra	avelling at a c $4m/s^2$	onstant sp		0  m/s, row 40 m / s		rve of rac	dius 100 i 200 m		eleration *	is: 2000 <i>n</i>	$n/s^2$
	iv)	The ang	le subtended	at its centr	re by an a	arc whose	e length is	s equal to	its radiu	s, is:			
		*	37.5°		*	47.3°		*	57.3°		*	67.3°	
	v)	The velo	ocity of sound zero	l in space	is: 330 <i>m</i> /	's	*	332 <i>m</i> /	's		*	344 m	'S
	vi)	If the ma	ass of the bob be doubled	of a simp	ole pendu *	lum is do		s time per	riod will: *	be halve	d	*	not change
	vii)	Candela *	is the unit of Luminous I			*	Power		*	Current		*	Distance
	viii)		on of velocity		x cc-1			<b>.</b>			<b>.</b> m <sup>2</sup>		
		*	$L^2$	*	$LT^{-1}$		*	$LT^{-2}$		*	$LT^2$		
	ix)	Time rat	te change of l Power		nentum o Work do		is called:	Force		*	Moment	arm	
	x)		cance, equal to	the radiu		earth, abo		rface of t			e of gravi *		
	• `		one fourth			Č			one nint	n	*	zero	
	xi)	The wor	k done along Positive	the closed	d path in *	a conserv Negative		ld 1S: *	Zero		*	Infinite	
	xii)	The ben	ding ability o Interference	_		bstacle is Polariza			Refraction	on	*	Diffract	ion
	xiii)	Two per	pendicular ve <mark>5 units</mark>		ing magn 6 units	nitude 3 a	nd 4 unit	s are adde 7 units	ed. The n	nagnitude *	of result 8 units	ant vecto	or is:
	xiv)	In Youn	g's double sli Increase	_	ent, if se Decreas	_	between s	slits is inc Remain		_	e spacing *	will: become	Infinity
	xv)	This ins	trument is use Telescope	ed to study	y the spec	etrum of I		bodies:	Spectro	meter	*	Magnify	ing glass
	xvi)	The dot	product of for Power	rce and ve	elocity is:	Accelera	ntion	*	Energy		*	Torque	

-----XXXXXXXXXX

Couple

Two forces, which are equal in magnitude but opposite in direction and not acting along the same straight line,

Power

Torque