Student Name;	Roll No		Date//		
Class 声 2 nd year	Subject : ≽ Mat	thematics	> Chapter # 4		
T- Marks : 30 Dir		ne:40 mints	Obtain Marks		

o #	1					-							
Q#		ircle the correct option			1x7=	=/							
1	The slope intercept form of equation of line is ;												
a		$l = \frac{x}{a} + \frac{y}{b}$	b	y = mx + c	c		$y = \frac{x}{m} + c$	d	$y - y_1 = m(x - x_1)$				
2	Two lines l_1 and l_2 with slope m_1 and m_2 are parallel if;												
a		$m_1 = m_2$	b	$m_1 = -m_2$	с	п	$n_1 m_2 = -1$	d	$m_1 = \frac{1}{m_2}$				
3	The line $y = 3x$ passes through;												
a	origin	ı	Ъ	(4,3)	с		(3,1)	d	(0,3)				
4	Distance between (1,2) and (2,1)is ;												
a		$\sqrt{3}$	b	$\sqrt{5}$	c		$\sqrt{2}$	đ	7				
5	The perpendicular distance of the line 12x+5y=7 from the origin is;												
a		$\frac{7}{13}$	Ъ	$\frac{13}{7}$	c		$\frac{1}{3}$	d	13				
6	Slope of the line $2x + y - 3 = 0$ is ;												
a	2		b	$\frac{2}{3}$	c	2		d	$\frac{-2}{3}$				
7	Midp	oint of the of the line segn	ient join A	(-8,3), B(2,-1))is ;								
a		(-6,2)	b	(10,4)		c	(-3,1)	ć	(-16, -3)				
Q #	2 Write short answer of following question. 2x7=14												
i	Conv	ert the given equation into	normal fo	rm $15y - 8x + 3$	= 0								
ii	Show that the points $A(3,1), B(-2,-3)$ and $C(2,2)$ are vertices of an isosceles tringle.												
iii	Find an equation of line through $A(-6,5)$ and having slope 7.												
iv	v Convert into two intercept form $2x-4y+11=0$												
v	Find the point that divides the join of $A(-6,3)$ and $B(5,-2)$ in the ratio 2:3 internally.												
vi	i Show that the triangle with vertices A(1,1), B(4,5) and $C(12, -5)$ is right triangle.												
vii	By means of slopes show that points $A(-1, -3)$, $B(1,2)$ and $C(2,9)$ are collinear;												
	Q # 3	Write detail answer of	these ques	tions.	4+5	5=9							
					- 1) - C	<u> </u>							

a. Find the angles of triangle whose vertices are A (-5,4), B(-2,-1), C(7,-5)

b. Find the equation of two parallel lines, perpendicular to 2x - y + 3 = 0, such that the product of x-and y- intercepts of each is 3.

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