First Semester Examination					
Tiı	ne : 90 mts	VIII – M	athematics	A	Marks : 40
1.	If $\frac{A}{360} \frac{2}{360}$ values of A	and <i>B</i> are respe	ectively.		1×7=7
	A) 5,6	B) 5,7	C) 7,5	D)	6,5
2.	The proper way of r	representing the actual v	value of squareroot of 1	6 is .	
	A) $\sqrt{16} = 8$	B) $\sqrt{16} = \sqrt{4}$	C) $\sqrt{16} = -4$	D)	$\sqrt{16} = 4$
3.	$2p^2 + 3q + r$ is a				
	A) Monomial	B) Binomial	C) Trinomial	D)	Polynomial
4.	(a+b)(a-b) = .				
	A) $a^2 + b^2 + 2ab$	B) $a^2 - b^2$	C) $a^2 + b^2 - 2ab$	D)	$x^2 + (a+b)x + ab$
5.	5. The common factor of x^2y^2 and x^3y^3 is				
	A) x^2y^2	B) $x^{3}y^{3}$	C) x^2y^3	D)	x^3y^2
6.	When factorised, $5p - 10 = \ldots$				
	A) $5p(p-2)$	B) $5(p-2)$	C) $5(p-10)$	D)	p(p - 2)
7.	Two angles whose s	sum is 180° are called .			
	A) Complementary B) Supplementary C) Adjacent D) Linear pairs				
8.	What are prime numbers ? Give examples. P $2 \times 8 = 16$				
9.	In the figure if AB	CD and $\angle AQR = 120^{\circ}$	A Q E	3	
10	find all the remaining angles. $C \xrightarrow{R} D$				
10. 11	What is an axiom 2 Give an example \sqrt{s}				
11. 12	Construct a 3×3 magic square using all odd numbers from 1 to 17				
13. In the figure if $\angle ABO = 115^0$					
and $\angle ACP = 125^0$					
	find all the angles of $AABC$ 125^{0}				
14	4 Factorise splitting the middle term : $r^2 - 7r + 12$				
11.	5. Find the cuberoot of 1728 by factorisation method				
15.	6. The area of a gauge shared land is $2025m^2$. Find its side $2\times 2=0$				
10. The area of a square shaped faile is $(x^2 - 2x + 2)$ and $(x^2 + 2x - 1)$ respectively.					
Find its perimeter. Find its perimeter. Find its perimeter.					
18. Write the divisibility rule for 4 with an example.					
19. Prove that 'The sum of the angles of a triangle is 180° .' $4 \times 2=8$					
20. Draw diagrams illustrating each of the following situation:					
	1) $\angle ABC = 70^{\circ}$ 11) Linear pairs of angles				
	iii) vertically oppos	she angles	$1v_j \circ points$ which a $*$	ire no	l comnear