## GREENLAWNS SCHOOL, WORLI Terminal Examination 2018 <u>MATHEMATICS</u>

Std : VI	Marks: [80]
Date: 21/9/18	Time: 1 ½ hrs

Question 1.

1. Write the numeral for: Four lakh sixty seven thousand three hundred six. Also write the number in International system.	[1]
2. Find the difference between the smallest and the greatest 5 digit	
number.	[1/3]
3. Evaluate : 479 x 87 + 479 x 13	[1]
4. Evaluate by filling in the blanks: 15 x (12-3) = 15 x x 13	[2]
= 45	
=	
5. Use associative property and evaluate 4 x 398 x 25	[1]
6. Using the number line solve $-5 - (-3)$	[1]
715 and -2 state the number that is greater	[1/2]
8. Express: p minus 5 is equal to x in algebraic form.	[1/2]
9. Write the degree of polynomial for $3x + xv^2 - 8vz$	[1/2]
10. Arrange -53.15.0 in descending order	[1/2]
11. Complete the magic square:	[1½]

	7	6
9	5	
4		8

Question 2.

a.	If p=3, q=-5, r=4 find 3pq+10pr+2qr	[2]
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b. Find the HCF of 144, 216, and 312 by long division method. [2]

c. Find the mean proportion between 4 and 36. [2]

d. Solve: 
$$\left(6\frac{3}{4} \div 2\frac{5}{8}\right) \div \left(1\frac{2}{7} \times 3\frac{1}{4}\right) + \left(3\frac{1}{8} \times 2\frac{3}{4}\right)$$
 [3]

e. At what speed in km is a train travelling, if it is covering 45m every 9 secs. [1] Question 3.

a. Add: (x+3y) and (2x+3y) and then subtract (x-2y) [2]

c. A metal contains 56% tin, 20% zinc and rest is brass. Find the quantity of brass in 750 gm of this metal. [2]

d.	If 8 kg of rice costs `420, what will be the cost 18 kg of rice? How much	
	kg rice can be bought for `1890	[3]
e.	In a proportion <b>9 : 5 : : x : 60</b> , find the value of x.	[1]
Ques	stion 4.	
a.	The age of a man is 38 years more than the age of his son. If the sum of their ages is 82 years, find the age of the son and his father.	[3]
b.	Subtract the sum of $5x^2 - 8x + 6$ and $3x^2 - 2x + 7$ from the sum of $3x^2 - 4x + 2$ and $7 - 5x^2 - 6x$	[3]
C.	A train 140 m long crosses a railway platform 180 m long in 16 secs. At what speed it is travelling.	[2]
d.	Stuti went to the market with `3000 in cash. Out of this money, she	
	purchased one frock, one toy and one bag costing `675.85, `318 and `197 respectively. How much money is left with her? [2]	2.75
Ques	stion 5.	
a.	Find the smallest number which when increased by 3 is exactly divisible by the numbers 21, 45, 63, 81, 210.	[3]
b.	Solve: $2\frac{2}{7}of 15\frac{3}{4} \times 2\frac{1}{4} \div \frac{4}{7}of 2\frac{5}{8}$	[3]
C.	Find the product of $(x^2 - 2x + 3)(x - 3)(4x^2 + 2x)$	[2]
d.	The area of a rectangle is the product of its length and breadth where as its perimeter is twice the sum of the length and the breadth. Frame a formula for area and perimeter. Find the area and perimeter where length = $5$ cm and breadth = $2$ cm	[2]
Ques	stion 6.	
a.	In the formula $\frac{9c}{5} = F - 32$ and F= -40 find c.	[2]
b.	From a piece of wire $12\frac{3}{4}$ m long, a small piece of length $3\frac{5}{6}$ m has been cut off. What is the length of the remaining piece?	[2]
C.	One fourth of a number is increased by 7 and the result is multiplied by 3 and the output is 26. Find the number.	[3]
d.	1200 boys and 600 girls are examined in a test. 42% of the boys and 30% of the girls passed. Find the number of students who failed.	[3]
Ques	stion 7.	
a.	If x=2, y=-2, z=3 find the value of $x^2 + y^2 + z^2 - 2xy - 2yz - 2zx$	[2]
b.	Find the product of $a+b-c$ and $2a-3b$ and then add $9a^2+2b^2-3c^2$	[3]

C.	Solve: $\frac{1}{3}\left(2\frac{1}{2}+3\frac{1}{3}\right) \div \frac{2}{9}\left(3\frac{1}{8}-1\frac{1}{12}\right)$	[3]
d.	A car is travelling at a speed of 54km/hr. How much time will it take to cover 600m?	[2]
Ques	tion 8.	
a.	If cost of 15 bananas is `84, how many bananas can be bought for `140	[2]
b.	The income of Ruchi and Rajan are in the ratio 4:7. If Ruchi earns ` 16800 per month, how much does Rajan earn per month?	[2]
C.	Simplify: $28 - [15 - \{8 + 20 \div (7 - \overline{8 - 6})\}]$	[3]
d.	Evaluate: 2.86 x 7.5 +45.4 ÷0.2	[3]
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