GREENLAWNS HIGH SCHOOL
FINAL EXAMINATION YEAR 2018

SUBJECT : MATHS | CLASS : VII
TIME : 2 HRS | MARKS :80

This paper consists of two sections A& B. Attempt all questions from both the sections.
Write all answers in the answer booklet only.
Show calculations on the same page. Be Neat.

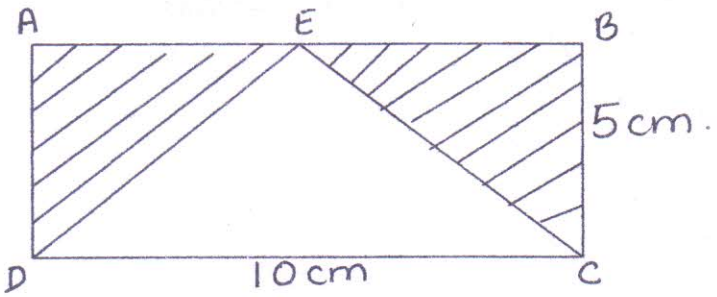
Section – A.

Q.I. Fill in the blanks:- [10]

1. $0.07 \times 0.007 =$ _____
2. $\frac{3}{5}$ _____ $\frac{4}{7}$ (put >. = or <)
3. The degree of $7x^3 + 8x^2y^2 - 6xy$ is _____
4. $0.086 =$ _____ (convert to fractions)
5. The perimeter of a square of side 7cm is _____ cm and its area is _____ cm^2
6. If $14x = 154$, then the value of $x =$ _____
7. The coefficient of 7 pq in – 7 pqr is _____
8. Express in simplest form :
   40 p : Rs.2 _____
9. $3x^2y \times (-4xy^2) =$ _____

Q.II

1) In the figure given below, find the area of the shaded region. [3]



2) Solve: $6 - 15 \div 5 \times 4 + 5$ [3]

3) a) Find the supplement of 35° [1]

b) Find the complement of $\frac{1}{2}$ of a right angle. [1]

c) Multiply : 4.380 by 1.2 [2]

... P.T.O.

Q.III.

1) There are 60 students in a class and 40% of the students are boys. [3]
If 25% of the girls do not play cricket, then how many girls in the class play cricket.

2) Simplify : $(4x^2 - 5x + 3) + (2x^2 - 6x + 4) - (3x - 2)$ [3]

3) The marks obtained by a student in five different subjects in an examination are as follows: [4]

Subject	Eng	Hindi	Maths	Science	Comp
Marks	85	65	80	75	90

Plot a bar graph for the above data.

Q.IV.

1) Multiply : $-6m^2n + 25mn - 4mn^2$ by $-7mn$ [3]

2) A number is divided into two parts in the ratio 7:4. If the sum of the numbers is 572, then find the numbers. [3]

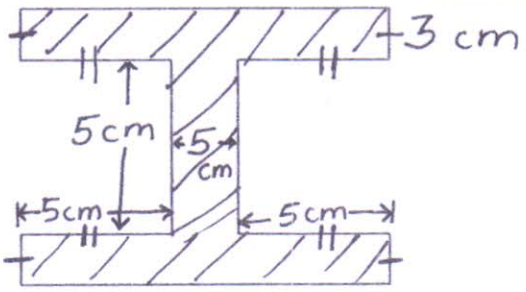
3) A man sold two horses for Rs 1600 each, thereby gaining 60% on one house and loosing 20% on the other. How much did he gain or loose in the whole transaction. Also find his gain or loss percent. [4]

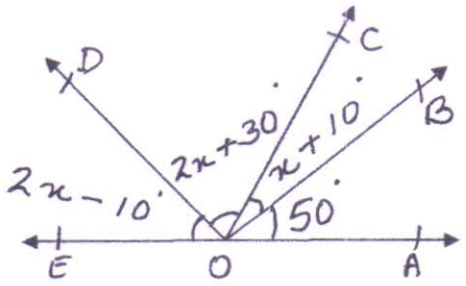
SECTION – B

Q.V.

1) Find the simple interest on Rs 5500 from 16th January' 2017 to 4th Nov'2017at 8% per annum. Also find the amount. [3]

2) Find the area of the shaded region. [3]



3) 

Find : a) the value of 'x'. [4]

also find ∠BOC, ∠COD

Q.VI.

1) Dev and Ramu together can complete a design in 3 days. If Dev alone can complete it in 5 days, then in how many days can Ramu complete it alone. [3]

2) Construct △PQR such that $l(PQ) = 4.5$ cm $\angle Q = 90°$ and $l(QR) = 5$cm. measure $l(PR)$ (use ruler and compasses only) [3]

3) Solve : [4]

$$\frac{3}{8} \div \{5\frac{2}{3} - (4 + \overline{\frac{1}{2} - \frac{1}{3}})\} + 3\frac{5}{2}$$

Q.VII.

1) The vertical angle of an isosceles triangle is 30° more than its base angle. Find the measures of all angles of the triangle. [3]

2) A garrison of 300 people have provisions for 16 days. However 150 people went to village for how many days will the food last now? [3]

3) Solve : $\frac{3}{4}(2m - 9) = \frac{21}{40}(5m - 30)$ [4]

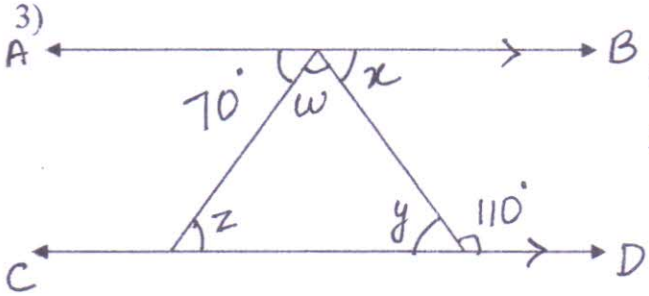
Q.VIII.

1) The following table shows the favourite sport of 200 students in a school. [3]

Sport	Cricket	Football	Hockey	Badminton
Students	80	60	25	35

Represent the given data using pie chart.

2) Find A: B: C if A : B = 2 : 5 and B: C = 4:6. Also find A:C [3]

3) 

Given: line AB||line CD [4]

Find w, x, y, z

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