GREENLAWNS HIGH SCHOOL

TERMINAL EXAMINATION-YEAR 2025-26

SUBJECT: MATHEMATICS **CLASS: VII**

TIME:2 HOURS **MARKS:80**

DATE:25-09-2025

INSTRUCTIONS

- The time given on the paper is the time allotted for writing the paper.
- Attempt all questions in Section I and Section II.
- Calculation has to be done on the same page as Numerical neatly.

SECTION-I (40 MARKS)
ATTEMPT ALL QUESTIONS

QI Choose the correct answers to the questions from the given options. (10)
Do not copy the questions. Rewrite the answer with the correct option.

1. Product of $(49) \times (-9) =$ _____ .
   a) 541 b) 441
   c) -441 d) -781

2. The reciprocal of $2\frac{1}{7}$ is _____.
   a) $\frac{15}{7}$ b) $\frac{7}{15}$
   c) $\frac{14}{7}$ d) $\frac{7}{14}$

3. $0.03 \div 1000 =$ _____.
   a) 0.00003 b) 0.0003
   c) 0.003 d) 0.3

4. $a^2 + b^2 + c^2 \div z$ is a _____.
   a) Multinomial b) Binomial
   c) Monomial d) Trinomial

5. 20% of a number is 40, then 30% of the same number is _____.
   a) 20 b) 200
   c) 60 d) 100

6. A man bought a mobile for ₹20,000 and spent ₹1500 on buying a cover for the phone. If the mobile is sold at 20% loss, the selling price will be_____ .
   a) ₹15,150 b) ₹17,200
   c) ₹4300 d) ₹21500

7. $\angle x$ and $\angle y$ are vertically opposite angles. If $\angle x = 145°$ and $\angle y$ =5a. The value of a is _____.
   a) 29° b) 45°
   c) 75° d) 35°

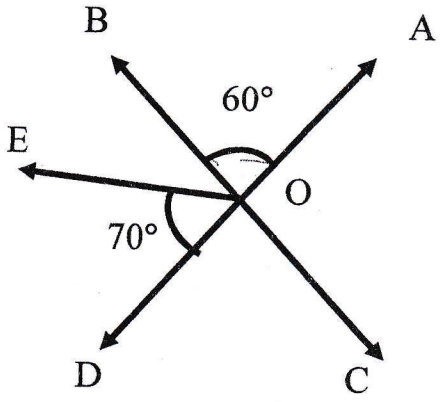
8. Which of the following is the greatest: 6.078, 6.8, 6.76 or 6.78?
   a) 6.078 b) 6.78
   c) 6.76 d) 6.8

9. The product of 0.25 and 0.005 is _____.
   a) 0.025 b) 0.00125
   c) 0.005 d) 1.25

10. Coefficient of $2x^2y^2$ in the term $18x^4y^3z^2$ is _____.
   a) $18x^4y^2z^2$ b) $9x^4y^3z^2$
   c) $9x^2yz^2$ d) $18x^3y^2z$

QII (10)

1. Multiply $(x^2 - y^4 + 3)(2x^2 - 1)$ [3]
2. Find all the angles in the given figure. [3]



3. $\frac{1}{4}$ th of the passengers of a train are children, $\frac{2}{5}$ th of the passengers are men and the rest are women. If the number of women travelling in the train is 420, then find the total number of passengers in the train. [4]

QIII (10)

1. Simplify $24.503 - 3.094 - 9.908 + 25.45 - 6.405$ [3]
2. Subtract $3a + 4b - 5ab \; from \; 4a + 2ab - 2b$. [3]
3. By selling a piece of wire for ₹54, a merchant suffers a loss of 10 %. At what price should he sell the wire piece to get a gain of 20%? [4]

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QIV (10)

1. If $x + 25^o$ and $3x + 15^0$ are supplementary, find the value of x. [3]
2. An ore contains 20% iron. How much ore will be required to get 50 kgs of iron? [3]
3. Solve the following: [4]

(i) Find the gain or loss percent, if C.P.= ₹500 and S.P.= ₹525.

(ii) Find the selling price, if C.P.= ₹250 and gain =20%.

SECTION-II
40 MARKS

QV (10)

1. Aziz earned ₹32,500 in January. If his monthly savings are ₹10,075, then find the percentage of expenditure? [3]
2. Multiply: $(2a + 3b - 7c)(4c + 5a)$ [3]
3. Shaina earns ₹4000. She spends 8% of the salary on groceries, of the remaining salary she spends 10% on house rent and 30% on the education of her children. How much does Shania spend on groceries, house rent and education of her children? [4]

QVI (10)

1. [3]

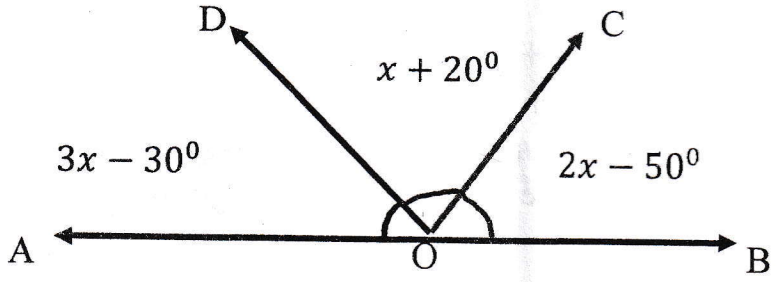
(i) Find the product of: $(-8) \times (-7) \times (-5)$

(ii) Find the quotient of $(-45) \div (-5)$

(iii) Solve: $\frac{-96}{-12}$

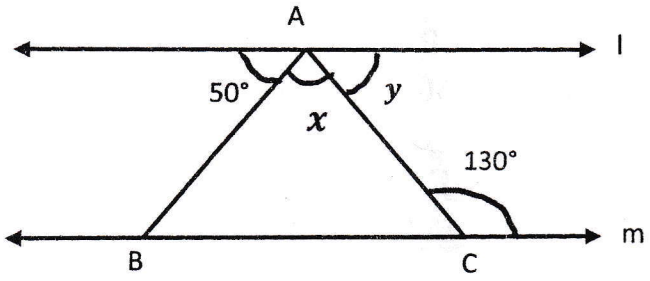
2. The cost price of an article is 64% of its selling price. Find the loss or the gain as percent on the whole. [3]

3. In the given figure AB is a straight line. Find the value of x. Hence calculate the measure of $\angle BOC$. [4]



QVII (10)

1. What number when increased 20% becomes 180? [3]
2. In the figure drawn below $l \parallel m$,find x *and* y. [3]



3. Simplify: $0 \cdot 3(2 \cdot 8 + 0 \cdot 8) + 9 \cdot 4 \times 1 \cdot 8$ [4]

QVIII (10)

1. Arrange the given fractions in descending order by making the denominators equal. $\frac{8}{21}, \frac{3}{7}, \frac{1}{9}, \frac{2}{3}$ [3]

2. Divide: $x^2 + 5x + 6$ by $x + 2$. [3]

3. $11\frac{1}{3}\ of\ \frac{6}{2} \div 3\frac{2}{5}\ of\ \frac{5}{20}$ [4]