GREENLAWNS HIGH SCHOOL
FIRST TERMINAL EXAMINATION
MATHEMETICS

Std : VI **Marks : 80**

Date : 22/09/25 **Time: 2 Hrs**

Question 1

Multiple choice questions : **[10]**

1) Which of the following has neither width or thickness but has only length.

a) dot b) surface c) line d) plane

2) $8.72 \div 8 =$ _____

a) 1.9 b) 1.09 c) 0.9 d) 10.9

3) 33.75 x _____ = 0.3375

a) $\frac{1}{10}$ b) 10 c) 100 d) $\frac{1}{100}$

4) An angle greater than 0^0 and less than 90^0 is known as _____

a) right angle b) obtuse c) acute d) Straight

5) $\frac{11}{12}$ is an/a_____ fraction

a) improper b) proper c) mixed d) equivalent

6) Two straight lines which lie in the same plane but do not meet even after extending are known as _____ lines.

a) intersecting b) parallel c) concurrent d) none of the above

7) In the term $4xy^2z$, coefficient of x is

a) $4xy^2z$ b) xy^2z c) $4y^2z$ d) $4xz$

8) $2x^2+3x+5$ is a _____ type of expression

a) binomial b) monomial c) Trinomial d) polynomial

9) $49\ m^3n^2 \div 35\ m^2n^3 =$ _____

a) $\frac{7m}{5n}$ b) $\frac{7m^2}{5n^2}$ c) $\frac{49m}{35n}$ d) $\frac{7n}{5m}$

10) The degree of $5x^2-7x^3y^2+y^4$ polynomial is

a) 5 b) 4 c) 2 d) 3

Question 2

A) Fill in the blanks **[5]**

1) $2x^3 \times 3x^4y \times 4xy^3 =$ _____

2) Number of lines drawn through three collinear points is _____

3) $\frac{48}{84} = \frac{4}{\square}$

4) $3\frac{7}{9}$ is an _____ fraction

5) -4 _____ 4 (Use < , >)

B) State true or false . If false correct the underlined word. **[5]**

1) –ba and 3ab are <u>like</u> terms.

2) Every positive integer is <u>smaller</u> than zero.

3) 8z has <u>two</u> terms 8 and z.

4) Two angles are said to be supplementary if their sum is <u>360°</u>.

5) The intersection of two planes is a <u>straight</u> line.

Question 3

Evaluate the following :

a) $(5x+7y) - (4y-3x)$ **[2]**

b) Change the following fractions in to like fractions : $\frac{1}{2}$, $\frac{3}{5}$, $\frac{4}{7}$ **[2]**

c) $(\frac{1}{2} + \frac{1}{5}) \div (\frac{1}{3} - \frac{1}{5})$ **[3]**

d) From the rope of $9\frac{1}{2}$ m long , $3\frac{3}{5}$ m is cut off. How much length rope is left ? **[3]**

Question 4

a) Add following fractions **[3]**

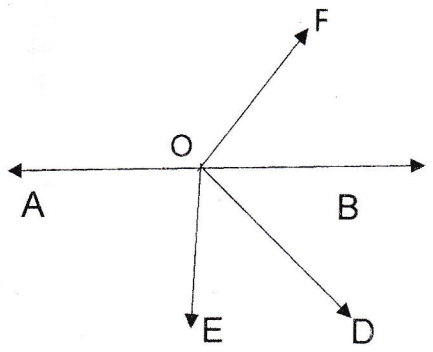
$3\frac{1}{4} - \frac{1}{4} - 1\frac{1}{8}$

b) ₹ 240 is to be divided between Max and Sam in the ratio 6:4 . How much will each person get ? **[3]**

c) In the beside figure [4]

if $\angle FOB = 50^0$ and $\angle AOE = 90^0$ and

$\angle BOD = 30^0$ then find the following



i) $\angle AOF$ = ?

ii) $\angle EOD$ = ?

iii) Name two adjacent angles

Question 5

a) Find the product of a+b-c and 2a-3b [3]

b) Vimal has to buy 15 pens each costing ₹ 25.50 . He gave ₹ 500 to shop keeper .How much money he will get back ? [3]

c) A man's monthly income is ₹ 24, 000 out of which he spends ₹ 18,000 every month . Find the ratio of its (i) expenditure to income (ii) income to savings [4]

Question 6

a) Two complementary angles are in ratio 7 : 8 . Find the measurement of each angle. [3]

b) Draw an angle measuring 45^0 with ruler and compass only. [3]

b) Divide $20x^3y^3 + 30x^4y^3 - 15x^4y^4$ by $5x^2y^2$ [4]

Question 7

a) Add 34°24'18" and 41°25'46" [3]

b) Draw an angle measuring 120^0 with ruler and compass only. [3]

b) Evaluate $2.46 \times 2.4 + 46.4 \div 0.2$ [4]

Question 8

a) If ratio between x+3 and 2x-3 is 5 : 7 , find x [3]

b) From the sum of x+2y – 5z and 2x+3y+9z subtract x-2y+z [3]

c) In the figure below AOB is a straight line . Find x then complete following. [4]

i) $\angle COD$ = ?

ii) $\angle AOD$ = ?