

Std: 6 A, B, C

Marks: 80

Greenlawns High School
Mathematics Terminal Examination

Time: 2hrs

- Note :** i. All answers to be written in the answer booklet provided. Show working wherever required.
ii. Do not copy the questions
iii. Rough work must be done on the same page as the rest of the answer.

Q.1).A. Choose the correct option for the following questions given below: (10m)

1. In the equation $y - 3 = 8$, the value of y is
(a) 12 (b) 11 (c) 14 (d) 13
2. The co-efficient of $6x$ in $-6x^4y^2$ is
(a) $-x^2y^3$ (b) $6x^3y^3$ (c) $-x^3y^2$ (d) $-6q^2$
3. The algebraic form of The product of 3 and a is equal to $8b$ is
(a) $3 + a = 8b$ (b) $3 - a = 8b$ (c) $a - 3 = 8b$ (d) $3 \times a = 8b$
4. The value of $4 \times 3x^2y \times 4x^3y^2$ is
(a) $48x^5y^3$ (b) $36x^3y^3$ (c) $48x^3y^5$ (d) $36x^5y^3$
5. If 50 represents gain of ₹50, then -50 represents _____
(a) sum of ₹50 (b) add of ₹15 (c) loss of ₹50 (d) negative of 15
6. Two lines are said to be _____ to each other, if they contain an angle of 90° (right angle) between them.
(a) intersecting (b) perpendicular (c) parallel (d) collinear
7. In the equation $x + 2 = 5$, the value of x is
(a) 3 (b) 7 (c) -3 (d) -7
8. The sum of the angles around a point is always _____.
(a) 360° (b) 90° (c) 180° (d) 60°
9. $9y$ decreased by $8z$ gives $5x$ in algebraic form is
(a) $5x + y = 9z$ (b) $5x + y = 9z$ (c) $9y - 8z = 5x$ (d) $5x \times y = 9z$
10. If three or more straight lines (in the same plane) pass through the same point, the lines are called _____.
(a) Straight (b) parallel (c) concurrent (d) bisector

P.T.O

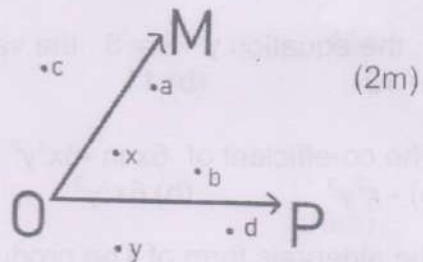
Q.I).B. State whether the following statements are true or false. If false correct the underline word. (5m)

- 0 is greater than every positive integer.
- The expression $2x + y$ is a trinomial.
- $5abc$ and $-7abc$ are like terms.
- Only one line can pass through a given point.
- An angle greater than 0° and less than 90° is known as an acute angle.

Q.II).

1. Name the points:

- the points in the interior of the $\angle MOP$
- the points in the exterior of the $\angle MOP$



- Identify the types of expression given below as Monomial, Binomial or Trinomial : (2m)
 - $9x^4 + 2x^2$
 - $4a^4 + 3 \times 3b - 4c \div 9ab$

3. Subtract $3abc$ from $15abc$ (2m)

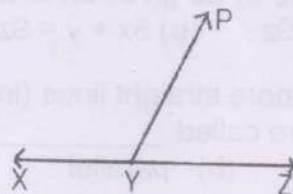
4. Find the supplement of : (2m)
 $\frac{3}{5}$ of 180°

5. Solve : $\frac{m}{3} = 2\frac{1}{3}$ (2m)

6. Divide $20p^2qr$ by $5pq$ (2m)

7. In the given figure alongside, XYZ is a straight line (3m)

If $\angle XYP = 105^\circ$, Find $\angle ZYP$.



P.T.O

Q.III)

1. Write the degree of the polynomials. (3m)

(i) $4m^2n + 7m^3n^2$

(ii) $3x^2y - 4y^2 + 2x^3y^5$

(iii) $5a^3 - 9a^2b^3 + 8ab^5$

2. Two complementary angles are in the ratio 9 : 6. Find the angles. (3m)

3. Multiply : $(4x^2 - x)(6 - 3x)$ (4m)

Q.IV).

1. The measure of two supplementary angles are $(3x - 8)^\circ$ and $(x + 4)^\circ$. Find x and hence find the angles. (3m)

2. Find the sum of $7x^2 - x - 6$, $x^2 - 2x - 3$ and $-2x^2 + 3x + 5$ (3m)

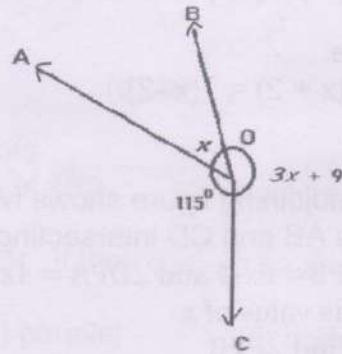
3. Simplify : $15x + 3(2x - 3) + 12 = 6(3x + 1)$ (4m)

Q.V).

1. From the adjoining figure, O is the centre $\angle AOC = 115^\circ$ and $\angle BOC = 3x + 9$, find : (3m)

(i) the value of x

(ii) $\angle BOC$.



2. Solve : $6a + 7 + 3a - 4 = 4a + 8$ (3m)

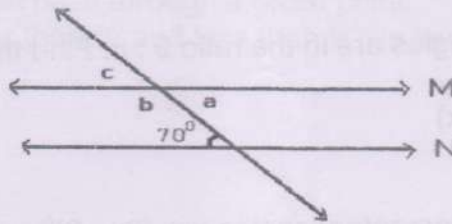
3. Subtract the sum of $(7a - 10b)$ and $(12a - 8b)$ from the sum of $(3a + 4b)$ and $(6a - 9b)$. (4m)

6C

P.T.O

Q.VI).

- Find the integer which is: (3m)
 - 4 less than -5
 - 5 more than -8
- From the figure given $M \parallel N$, find a , b and c . (3m)

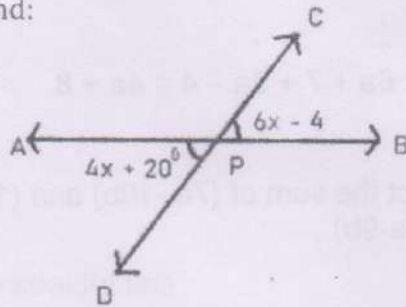


- Divide : (4m)

$$48x^3y^3 + 54x^4y^5 - 36x^5y^4 + 27x^4y^3 \text{ by } -6x^2y^3$$

Q.VII).

- Evaluate : (3m)
 - $(+3) - (-4)$
 - $(-5) - (-7)$
 - $(-9) - (+5)$
- Solve: (3m)
 - $3(x + 2) = 7(x - 2)$
- The adjoining figure shows two straight Lines AB and CD intersecting at point P. If $\angle CPB = 6x - 4$ and $\angle DPA = 4x + 20^\circ$, find: (4m)
 - the value of x
 - Find $\angle CPB$
 - Find $\angle CPA$



-----ALL THE BEST-----