

TERMINAL EXAMINATION-YEAR 2026-27

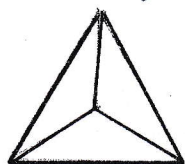
TIME:2 HOURS

MARKS:80

- 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.

Q1 Choose the correct answer to the question from the given options: [10m]
(**DO NOT** copy the question, write the correct answers only)

1. How many triangles are there in the following figure?



- a) 4
b) 3
c) 6
d) 2
2. The coefficient of a^2 in $-2a^2b$ is _____.
- a) b
b) $-2a^2b$
c) $-2b$
d) $4 - 2b$
3. _____ is a proper fraction.

- a) $\frac{5}{3}$ b) $\frac{5}{10}$
- c) $\frac{3}{2}$ d) $\frac{9}{7}$

4. $70 + 5 + \frac{4}{100} + \frac{6}{1000} =$ _____

a) 75.46

b) 70.046

c) 75.046

d) 5.046

5. Which of the following is not equivalent to $\frac{3}{5}$?

a) $\frac{6}{10}$

b) $\frac{9}{15}$

c) $\frac{4}{10}$

d) $\frac{15}{25}$

6. The degree of the polynomial $a^5b^4c + 3ab^2c^3 - 14a^4b^2c^5$ is _____.

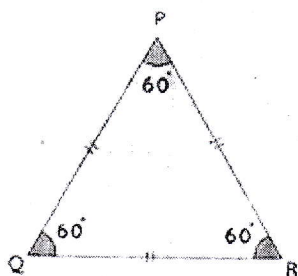
a) 4

b) 11

c) 3

d) 9

7. Given below is an example of a/an _____ triangle.



a) Obtuse angled

b) Right angled

c) Equilateral

d) Scalene

8. Which of the following expression is NOT a polynomial?

a) $3a^2 + 4b + 5c$

b) $4x + 5y - 6z$

c) $x^2 - 4k + 7x^3$

d) $2x + \frac{1}{4x}$

9. Numerical coefficient of $-\frac{5}{9}x^2y^3$ is _____.

a) $-\frac{5}{9}$

b) $\frac{5}{9}$

c) -5

d) $-\frac{5}{9}x^2$

10. What fraction is 3 hours of a day?

a) $\frac{1}{8}$

b) $\frac{3}{12}$

c) $\frac{1}{24}$

d) $\frac{3}{18}$

QII A. Fill in the blanks: (Write answers only)

[5m]

1) 15 steps forward are represented as _____ as an integer.

2) $\frac{6}{11} = \frac{18}{\boxed{}}$

3) $5445\text{m} = \underline{\hspace{2cm}}\text{km}$

4) The decimal form of 4 tens 5 ones and 5 tenths is _____.

5) A triangle in which one of the angles is an obtuse angle, that is more than 90° but less than 180° is called an _____ triangle.

B. State whether the following statements are **TRUE** or **FALSE**. If **false**, correct the underlined word. [5m]

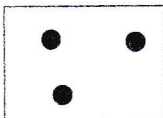
1) The sum of two positive integers is always less than 1.

2) $\frac{19}{4} = 4\frac{3}{4}$

3) $\frac{4}{3}x \div \frac{3}{5}y + 4x$ is a trinomial.

4) The triangle whose all three sides are not equal is known as a scalene triangle.

5)



The number of lines that pass through all three points is three.

QIII

1) Write an algebraic expression for the following:

[3]

(i) Twelve subtracted from the product of a and 5.

(ii) 5 more than double a number.

(iii) Seven decreased from four times a number.

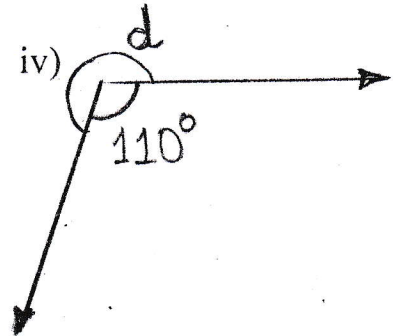
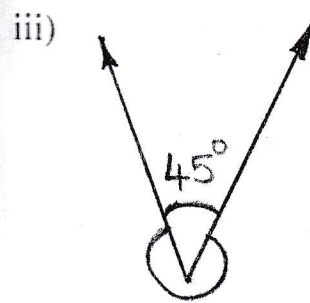
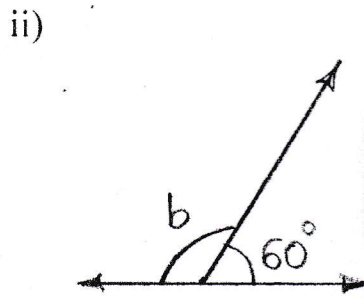
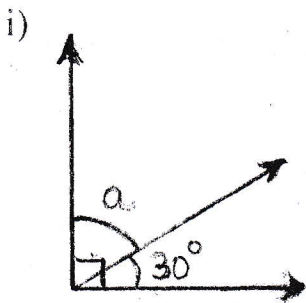
2) There are 56 apples in a basket out of which 8 apples are rotten. What fraction of apples is: [3]

(i) Rotten

(ii) Fresh

3) Find the measures of the angles marked as a, b, c and d.

[4]



QIV Solve the following:

1) Find the sum of $89 + (-4) + (-33) + 8$.

[3]

2) Evaluate $2x^2 - 5x + 3$ if $x = -3$

[3]

3) Tina bought 15kgs of vegetables from the market. Out of this 5kg 500gms is potatoes, 4kg 350gms is tomatoes and the remaining is onions. What is the total weight of potatoes and tomatoes? What is the weight of the onions? [4]

QV

1) Answer the following:

[3]

(i) Find the literal coefficient of $-\frac{3}{5}abc^2$.

(ii) Arrange the following integers in descending order.

-4, 0, 5, 99, -125

(iii) Convert ₹12 and 25 paise into rupees.

2) A wire is cut into three pieces. The length of the first piece is $\frac{4}{16}$ m, the length [3]
of the second piece $1\frac{1}{4}$ m and length of the third piece $\frac{7}{4}$ m. Find the total length of
the wire.

3) Arrange the following fractions into ascending order. $\frac{3}{4}, \frac{2}{3}, \frac{1}{2}, \frac{5}{6}$ [4]

QVI

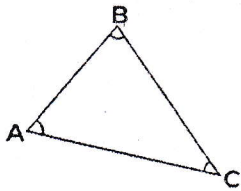
1) Simplify the following: $2\frac{1}{4} \div \frac{7}{2}$ of $1\frac{1}{3} \times 1\frac{1}{2}$ [3]

2) Find the value of $6x + 5y - 3z$ for $x = 2, y = -3, z = 4$ [3]

3)

a) Convert $\frac{6}{125}$ into decimals. [2]

b) In the figure given below: [2]



(i) Name the vertex opposite to CA.

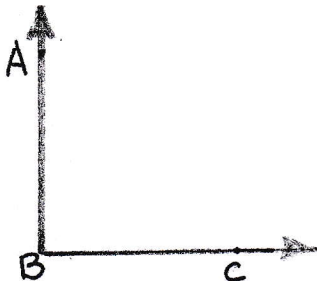
(ii) Name the side opposite to vertex A.

QVII

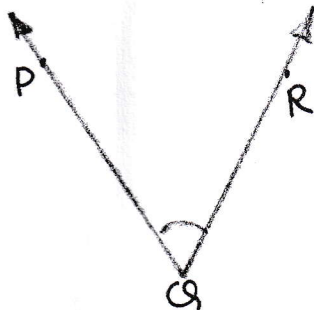
1) Find the measure of the angles given below by using a protractor.

[3]

a.



b.



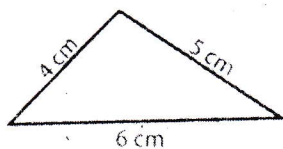
c.



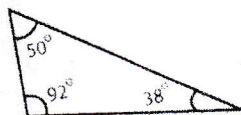
2) Identify the type of triangle.

[3]

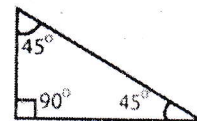
a.



b.



c.



3) Find the perimeter of a triangle whose sides are $2\frac{2}{3}$ m, $1\frac{1}{4}$ m and $3\frac{1}{2}$ m.

[4]

QVIII

1)

(i) Reduce the fraction to its lowest term. $\frac{28}{144}$

[1]

(ii) Compare the fractions using the cross-multiplication method. $\frac{4}{7} \square \frac{5}{9}$

[2]

2) Cost of 42 items is ₹220.50. Find the cost of one item?

[3]

3)

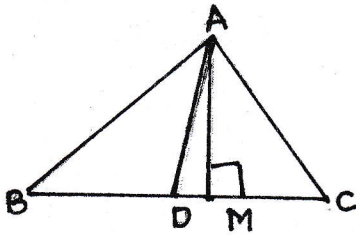
(i) What should be added to 49.25 to get 90?

[2]

Q1B

(ii) In the figure given below, if D is the mid-point of BC in $\triangle ABC$.

[2]



- a) AD is the _____.
- b) AM is the _____.