

GREENLAWNS SCHOOL, WORLI
Terminal Examination 2017
MATHEMATICS

Std: VI
Date: 26/9/17

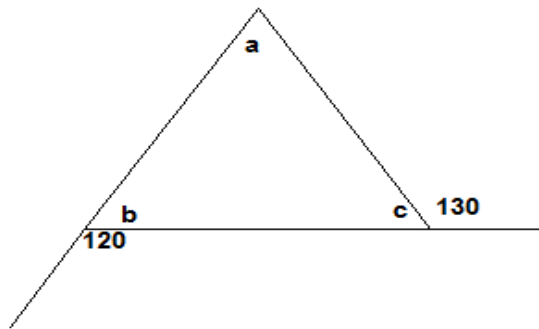
Marks: [80]
Time: 1 ½ hrs

QUESTION1

- a. Find the HCF of 90, 140, 180, and 210 by long division method [4]
- b. Divide ` 1200 among A, B, C in the ratio 2:3:5 [3]
- c. Find the square root of 4096 by prime factorisation method. [3]

QUESTION2

- a. For every monitor worth ` 8000 sold from his showroom, the manager earns 4 ½ % as commission. If 7 monitors are sold in a month, how much does the manager earn as commission? [3]
- b. In the given figure find the value of a, b, c. [3]



- c. Subtract $(2a-3b+4c)$ from the sum of $(a+3b-4c)$, $(4a-b+9c)$ and $(-2b+3c-a)$ [4]

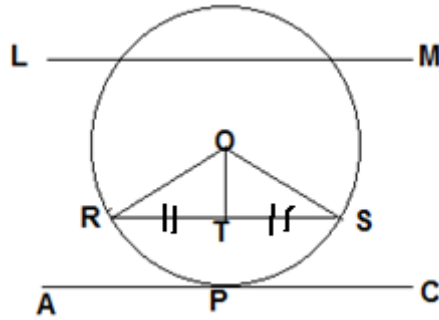
QUESTION3

- a. Multiply 246×345 and round off to nearest 1000. [2]
- b. Using the distributive property of multiplication find the value of $(57 \times 3) + (57 \times 7)$ [2]
- c. The diameter of a circle is 14cm, find the circumference of the circle. [2]
- d. A train 450m long passes a bridge of 225m in $22 \frac{1}{2}$ secs. What is the speed of the train in km/hr? [4]

QUESTION4

- a. Draw a net figure of a square pyramid. [1]
- b. Subtract $(4x-3y)$ from $(9x+6y)$ [2]

- c. Look at the given diagram and answer the question that follow [3]



- i. Write the median of the triangle.
 - ii. Name the tangent of the circle
 - iii. Name the secant of the circle
- d. The population of the town has increased by 5% in a year. Last year its population was 20320. What is the present population of the town? [2]
- e. Find the LCM of 48 and 72 by common division method. [2]

QUESTION5

- a. Find the cube root of 157464 by prime factorisation method [3]
- b. A printing press prints a magazine. One magazine has 240 pages. The press printed 13130 magazines. How many pages were printed in total? [2]
- c. Using the distributive property find the value of 60×101 [2]
- d. Chalk contains 10% calcium, 3% carbon, and 12% oxygen. Find the amount in gms of each of these compounds in 1kg of chalk. [3]

QUESTION6

- a. 28 pumps can empty a reservoir in 18 hours. In how many hours can 42 such pumps do the same work? [3]
- b. For ΔABC , $\angle A=60^\circ$, $\angle C=40^\circ$, find $\angle B$ [3]
- c. Find the value of $x^2 + 2xy - 9$ where $x=3$, $y= - 4$ [2]
- d. Find the value of 40% of 1 year. [2]

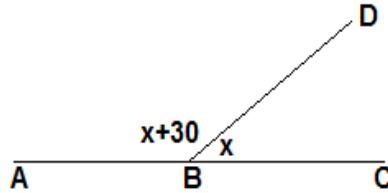
QUESTION7

- a. The three angles of a quadrilateral are 72° , 84° , and 108° . Find the fourth angle. [2]
- b. The speed of a car is 70km/hr. It takes 3hrs to cover a certain distance. Find the distance covered in meters. [2]
- c. If $a=8$, $b=2$, $c=3$ find $\frac{16bc-5ab}{abc-3b^2}$ [3]
- d. Evaluate: $(3^2 + 4^2) \times \frac{1}{\sqrt[3]{125}} \times (-1)^{73}$ [3]

QUESTION8

a. Draw the solid and the net figure of a triangular prism [2]

b. Find the value of the angles for the given figure [2]



c. The price of an article was ` 175. After 1 year it reduced to Rs 105. By how much per cent has the value decreased? [3]

d. Find the circumference and the diameter of a circle whose radius is 21cm. [3]
