GREENLAWNS HIGH SCHOOL

STD-VIIDIV-A,B,CSUBJECT-MATHSMARKS-80DATE-21-02-25FINAL EXAMINATIONDURATION: 2 HOURS

NOTE: Do not copy questions.

Attempt all the questions

Show all steps with the calculations on the same page.

Rough work must be done on the same page on the right hand side.

[10]

Q1] MULTIPLE CHOICE QUESTIONS:

1) The value of 5^4 is a) 30 b) 625 c) 0 d)776 2) The area of square whose perimeter is 76 m a) 361 m² b) 38 m² c) 19 m² d) 304 m² 3) Find the fourth proportional of 2, 5 and 6. b) 10 c) 30 a) 21 d) 15 4) If $\frac{b}{16}$ + 3 = 2 then b is_____ b) -11 c) -16 d) 46 a) 27 5) If a trip of 45 km costs ₹1395. Then the cost for a trip of 24 km is_____ c) ₹ 740 d) ₹ 1395 a) ₹ 744 b)₹31 6) In a $\triangle PQR$, if $\angle P = 84^{\circ}$ and $\angle Q = \angle R$, the measure of $\angle Q$ is b) 48° c) 180° d) 84° a) 96° 7) The ratio of 15 kg : 2 guintal in its simplest form is a) 3:4 b) 15:30 c) 3:40 d) 15: 2 8) Base of a triangle is 75 cm and height is 30 cm. Its area is _____ a) 2250 m² b) 324 m² c) 1244 m² d) 1125 m² 9) $64 \times 225 = 8^{\times} \times 15^{\vee}$, the value of x is a) 8 c) 64 d) 2 b) 0 10) 6 women can stitch a dress in 10 days. The number of women needed to stitch the same dress in 12 days is b) 6 d) 5 a) 7 c) 12

1) Find the area of the shaded region.



2) Evaluate using law of indices : $\frac{(-8abc)(6abc)}{(32abc)}$ [3] 3) A) If A:B = 1: 3, B:C = 4:5 , find A:B:C. [2]

B) The angles of a triangle are in the ratio 3 : 5 : 4. Find the measure of the first angle of the triangle. [2]

Q3]

- 1) Sum of 3 consecutive even numbers is 72. Find each number. [3]
- 2) 18 mangoes weigh 3.6 kg. How many mangoes will weigh 5 kg? [3]
- 3) If the perimeter of a square is 564 m then find its side and Area. [4]

Q4)

1)	Evaluate using law of indices	[3]

- 2) A rope is divided into two parts in the ratio 1:6. If the smaller one is 28.5 cm, find the length of the rope. [3]
- 3) The price of three bags and 2 lockets is ₹350 if a bag cost ₹50 more than a locket, find the cost of one bag and one locket. [4]

[3]

 The vertical angle of an isosceles triangle is twice the sum of its base angles. Find each angle of the triangle. [3]

2)
$$\frac{2a-3}{5} + \frac{a+3}{4} = \frac{4a+1}{7}$$

[3]

3) The length and breadth of the rectangle is in the ratio 5 : 3. If the perimeter is 320 m. Find its length and breadth. [4]

Q6]

- A wire is bent into the shape of a square of side 15 cm. If the same wire is bent into a rectangle of breadth 13 cm. Find its length.
 [3]
- 2) Rahul and Rishab can paint a wall in 4 days. Rahul alone can paint it in 6 days. In how many days can Rishab alone paint it?
- 3) Evaluate (use law of indices) [4]

Q7]

- The difference between two numbers is 9. Thrice the greater number minus the smaller number is 81. Find the numbers. [3]
- 2) From the given figure find the unknown angles. [3]

3) The total number of students in a school are 12,000 out which $\frac{1}{5}$ are boys of the total students. Find the number of girls. Also, find the ratio of number of girls to the total students. [4]

Q5)

Q8] 1) From the given figure, find the value of x° and y° . [3]

2)
$$6^{a} \times 36^{a-1} \div (6^{a-1} \times 36^{a-1})$$
 [3]

3) The length and breadth of a rectangular lawn are in the ratio 7: 1. The total cost of fencing the lawn at the rate of ₹ 45 per m is ₹ 11520. Find its Area.
