

GREENLAWNS HIGH SCHOOL

STD-VII

FINAL EXAMINATION

MARKS-80

DATE: 02-03-26

MATHS

TIME- 2 HOURS

NOTE: All working including rough work must be clearly shown and done on the same page as the rest of the answer. Omission of essential steps will result in loss of marks.

Q1] MULTIPLE CHOICE QUESTIONS: (Write only answers)

[10]

- 1) The value of 5^4 is
 - a) 20
 - b) 100
 - c) 625
 - d) 125
- 2) If $P = ₹ 100$, $R = 3$, $T = 2$, then S.I is
 - a) ₹3
 - b) ₹6
 - c) ₹12
 - d) ₹20
- 3) If $\frac{s}{-2} = -16$, then s is
 - a) 8
 - b) -8
 - c) 32
 - d) -32
- 4) If all the sides of the triangle are unequal, it is called as
 - a) Equilateral triangle
 - b) Scalene triangle
 - c) Acute angled triangle
 - d) Obtuse angled triangle
- 5) In ΔXYZ , if $\angle X = 50^\circ$, $\angle Y = 20^\circ$ then $\angle Z$ is.
 - a) 100°
 - b) 120°
 - c) 110°
 - d) 70°

6) If length = 12 cm, breadth = 8 cm then area of rectangle is

- a) 20 cm^2
- b) 48 cm^2
- c) 96 cm^2
- d) 192 cm^2

7) $(3 \times 5)^2$ is

- a) 30
- b) 75
- c) 150
- d) 225

8) Perimeter of square is 64 cm. The side of square is

- a) 8 cm
- b) 12 cm
- c) 16 cm
- d) 32 cm

9) $28 - a = 16$, then a is

- a) 10
- b) 12
- c) 14
- d) 44

10) If Amount = ₹ 2000 and Interest = ₹ 60 then the Principal is

- a) ₹ 1940
- b) ₹ 1960
- c) ₹ 2000
- d) ₹ 2060

Q2]

- 1) Find the height of a triangle whose area is 216 m^2 and base is 36 m. [3]
- 2) Construct angle $\angle ABC = 135^\circ$ using compass and ruler only. [3]
- 3) A) Find the rate of interest, if S.I on ₹ 700 in 4 years is ₹ 140. [2]
B) Draw a line segment AB of 8 cm and bisect it. [2]

Q3]

1) The cost of $\frac{5}{9}$ kg of sweets is ₹ 270, find the cost of: [3]

a) One kg sweet

b) $\frac{1}{6}$ kg sweet

2) $x + \frac{x}{3} = \frac{8}{9} - \frac{x}{7}$ [3]

3) One angle of a triangle is 84° . The other two angles are in the ratio $3 : 5$

Find the two angles. [4]

Q4]

1) Construct an angle, $\angle XYZ = 60^\circ$ and bisect it using a ruler and compass only. [3]

2) The cost of fencing a square ground at the rate of ₹ 60 per meter is ₹ 3600. Find, [3]

i) The side

ii) perimeter of the ground.

iii) Area

3) $8(y - 3) = 4(3y + 6)$ [4]

Q5]

1) X and Y together can complete a work in 8 days. Y alone can do the same work in 10 days. How long will X alone take to do the same work? [3]

2) After 5 years, a sum amounts to ₹ 2880 at 4% per annum simple interest. Find the principal. [3]

3) Solve using law of indices [4]

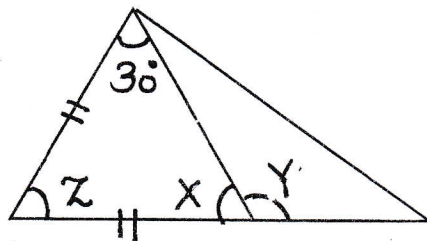
$$\left(\frac{1}{16pq^2r^2}\right)^3 \div \left(\frac{3}{4pq^3r^2}\right)^5$$

Q6]

- 1) Find the time in which ₹1000 will amount to ₹ 2600 at 8% p.a. [3]
- 2) $9x - 7 = \frac{2x}{3} - \frac{12}{5}$ [3]
- 3) Allan can complete a work in 40 days, whereas John can complete the same work in 30 days. Find, [4]
 - (i) Work done by Allan in 20 days.
 - (ii) Work left after Allan has worked on it for 20 days.
 - (iii) Time taken by John to complete the remaining work.

Q7)

- 1) If 7 is added with four times a number, the result is 47. Find the number. [3]
- 2) Solve using law of indices $(3^2)^0 + (3)^5 \div (3)^2 + (3)^4$ [3]
- 3) Observe the figure and find the value of $\angle X$, $\angle Y$ and $\angle Z$. [4]



Q8)

- 1) The difference between a number and one-fifth of itself is 44. Find the number. [3]
- 2) A floor is 66 m long and 25 m broad. It is covered with tiles, each measuring 15 m by 10 m. Find the number of tiles required to cover the floor. [3]
- 3) Observe the figure and find the values of p, q and r. [4]

