

ST. LAWRENCE HIGH SCHOOL

27, BALLYGUNGE CIRCULAR ROAD



| Class | s : 8 | Subject : ALG/GEOM | Term : FINAL TERM | Max Marks: 80 |
|-------|--------------------|---|--|---------------|
| Q1: | Number of line | s of symmetry of a square is | | Marks: 1 |
| | 1. 1 | | | |
| | 2. 2 | | | |
| | 3. 3 | | | |
| | 4. 4 | | (This Answer is Correct) | |
| Q 2 : | Find two numb | ers whose difference is 65,if the larg | er is 6 times the smaller. | Marks: 1 |
| | 1 . 78 , 13 | | (This Answer is Correct) | |
| | 2. 13,56 | | | |
| | 3. 65, 15 | | | |
| | 4. 78,65 | | | |
| Q3: | If 0.4 x = 0.44 | , then 100 x = | | Marks: 1 |
| | 1. 11 | | | |
| | 2. 110 | | (This Answer is Correct) | |
| | 3. 1.1 | | | |
| | 4. 0.1 | | | |
| Q 4 : | If a number is | multiplied by 5 and 8 is subtracted fro | om the product, the result is 12.Find the number | Marks: 1 |
| | 1.4 | | (This Answer is Correct) | |
| | 2. 10 | | | |
| | 3. 11 | | | |
| | 4. 24 | | | |
| Q 5 : | Find two conse | ecutive odd numbers whose sum is 5 | 56 | Marks: 1 |
| | 1 . 27 , 29 | | (This Answer is Correct) | |
| | 2. 30,26 | | | |
| | 3. 30,40 | | | |
| | 4. 28,28 | | | |
| | | | | |

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|--------|--|--|----------|---|
| Q6: | Factorise, 64 - (a-5) ² | N | /larks : | 1 |
| | 1 . (3+a)(13-a) | (This Answer is Correct) | | |
| | 2. (3-a)(13-a) | | | |
| | 3. (3+a)(13+a) | | | |
| | 4. a(13-a) | | | |
| Q7: | Factorise, x 4 +2x 2 +1 | N | /larks : | 1 |
| | 1. (x ² +1)(x ² +1) | (This Answer is Correct) | | |
| | 2. $(x^2-1)(x^2-1)$ | | | |
| | 3. x ² (x ² +1) | | | |
| | 4. (x²+1)(x²-1) | | | |
| Q8: | Find a 2 + b 2 , if a+b=10 and a-b=2 | n | /larks : | 1 |
| | 1. 52 | (This Answer is Correct) | | |
| | 2. 25 | _ | | |
| | 3. 27 | | | |
| | 4. 55 | | | |
| Q9: | Find a-b,if a+b =3 , ab=2 | n | /larks : | 1 |
| | 1. 1 | | | |
| | 21 | | | |
| | 3. 1,-1 | (This Answer is Correct) | | |
| | 4. 0 | | | |
| Q 10 : | If x + 1/x = 3, then x ² + 1/x ² = | N | /larks : | 1 |
| | 1. 9 | | | |
| | 2. 7 | (This Answer is Correct) | | |
| | 3.8 | | | |
| | 4 . 11 | | | |
| Q 11 : | 8,15, are the sides of a right angled tri | iangle N | /larks : | 1 |
| | 1. 14 | | | |
| | 2. 16 | | | |

3. 17 4. 18 (This Answer is Correct)

| Q 12 : | Number of lines of symmetry of an isosceles triangle is | | Marks: | 1 |
|--------|---|----------------------------|---------|---|
| | 1. 1 | (This Answer is Correct) | | |
| | 2. 2 | | | |
| | 3. 3 | | | |
| | 4. 4 | | | |
| Q 13 : | Number of lines of symmetry of an equilateral triangle is | | Marks : | 1 |
| | 1. 1 | | | |
| | 2. 2 | | | |
| | 3. 3 | (This Answer is Correct) | | |
| | 4. 4 | | | |
| Q 14 : | Number of lines of symmetry of a kite is | | Marks : | 1 |
| | 1. 1 | (This Answer is Correct) | | |
| | 2. 2 | _ | | |
| | 3.3 | | | |
| | 4. 4 | | | |
| Q 15 : | Number of lines of symmetry of an arrowhead is | | Marks : | 1 |
| | 1.1 | (This Answer is Correct) | | |
| | 2. 2 | | | |
| | 3.3 | | | |
| | 4. 4 | | | |
| Q 16 : | Number of lines of symmetry of a rhombus is | | Marks : | 1 |
| | 1. 1 | | | |
| | 2. 2 | (This Answer is Correct) | | |
| | 3. 3 | | | |
| | 4. 4 | | | |
| Q 17 : | Number of lines of symmetry of a semicircle is | | Marks : | 1 |
| | 1.1 | (This Answer is Correct) | | |
| | 2. 2 | | | |
| | 3. 3 | | | |
| | 4. 4 | | | |
| | | | | |

| Q 18 : | Which of the following letters have no line of symmetry? | | Marks: | 1 |
|--------|--|----------------------------|---------|---|
| | 1. F | (This Answer is Correct) | | |
| | 2. A | | | |
| | 3. C | | | |
| | 4. B | | | |
| | | | | |
| Q 19 : | Which of the following letters have no line of symmetry? | | Marks : | 1 |
| | 1. D | | | |
| | 2. G | (This Answer is Correct) | | |
| | 3. A | | | |
| | 4. E | | | |
| Q 20 : | Which of the following letters have no line of symmetry? | | Marks : | 1 |
| | 1. T | | | |
| | 2. U | | | |
| | 3. J | (This Answer is Correct) | | |
| | 4. W | _ | | |
| Q 21 : | Which of the following letters have no line of symmetry? | | Marks : | 1 |
| QZI. | 1. M | | | • |
| | I. IVI | | | |
| | 2 Δ | | | |
| | 2. A | | | |
| | 3. I | (This Answer is Correct) | | |
| | | (This Answer is Correct) | | |
| Q 22 : | 3. I | (This Answer is Correct) | Marks: | 1 |
| Q 22 : | 3. I 4. L | (This Answer is Correct) | Marks : | 1 |
| Q 22 : | 3 . I 4 . L Which of the following letters have no line of symmetry? | | Marks : | 1 |
| Q 22 : | 3 . I 4 . L Which of the following letters have no line of symmetry? 1 . N | | Marks : | 1 |
| Q 22 : | 3 . I 4 . L Which of the following letters have no line of symmetry? 1 . N 2 . K | | Marks : | 1 |
| Q 22 : | 3. I 4. L Which of the following letters have no line of symmetry? 1. N 2. K 3. U | | Marks : | 1 |
| | 3. I 4. L Which of the following letters have no line of symmetry? 1. N 2. K 3. U 4. C | | | |
| | 3. I 4. L Which of the following letters have no line of symmetry? 1. N 2. K 3. U 4. C Which of the following letters have no line of symmetry? | | | |
| | 3. I 4. L Which of the following letters have no line of symmetry? 1. N 2. K 3. U 4. C Which of the following letters have no line of symmetry? 1. B | (This Answer is Correct) | | |
| | 3. I 4. L Which of the following letters have no line of symmetry? 1. N 2. K 3. U 4. C Which of the following letters have no line of symmetry? 1. B 2. P | (This Answer is Correct) | | |

| Q 24 : | Which of the following letters have no line of symmetry? | | Marks: | 1 |
|--------|--|----------------------------|---------|---|
| | 1. A | | | |
| | 2. D | | | |
| | 3. Q | (This Answer is Correct) | | |
| | 4. W | | | |
| Q 25 : | A pentagon has lines of symmetry | | Marks : | 1 |
| | 1. 2 | | | |
| | 2. 5 | (This Answer is Correct) | | |
| | 3. 3 | | | |
| | 4. 1 | | | |
| Q 26 : | A hexagon has lines of symmetry | | Marks : | 1 |
| | 1 . Infinite | | | |
| | 2. 1 | | | |
| | 3. 6 | (This Answer is Correct) | | |
| | 4. 0 | | | |
| Q 27 : | A angle has how many lines of symmetry? | | Marks : | 1 |
| | 1. 1 | (This Answer is Correct) | | |
| | 2. 2 | | | |
| | 3. 3 | | | |
| | 4. 4 | | | |
| Q 28 : | Which of the following letters have a line of symmetry? | | Marks : | 1 |
| | 1. A | (This Answer is Correct) | | |
| | 2. P | _ | | |
| | 3. G | | | |
| | 4. J | | | |
| Q 29 : | Solve for x , 3 (x +1) + 4 x = 24 | | Marks : | 1 |
| | 1. 3 | (This Answer is Correct) | | |
| | 2. 600 | _ | | |
| | 3. 110 | | | |
| | 4 . 120 | | | |

| Q 30 : | Solve for x , 4 x - 5 = 19 | | Marks: | 1 |
|--------|---|----------------------------|---------|---|
| | 1. 5 | | | |
| | 2. 6 | (This Answer is Correct) | | |
| | 3.9 | | | |
| | 4. 10 | | | |
| | | | | |
| Q 31 : | Solve for x , $0.5 x = 5$ | | Marks: | 1 |
| | 1. 5 | | | |
| | 2. 15 | | | |
| | 3. 10 | (This Answer is Correct) | | |
| | 4. 0.5 | | | |
| | 0.1. 6. 45. 0 | | | |
| Q 32 : | Solve for x , $15 \div x = 3$ | | Marks : | 1 |
| | 1. 15 | | | |
| | 2. 0.5 | | | |
| | 3. 50 | (This Assessment Comment) | | |
| | 4. 5 | (This Answer is Correct) | | |
| Q 33 : | Solve for x , x +10 = 7 x + 10 | | Marks : | 1 |
| | 1.0 | (This Answer is Correct) | | |
| | | _ | | |
| | 2. 1 | | | |
| | 2. 131 | | | |
| | | | | |
| | 31 42 | | Marko | |
| Q 34 : | 31 42 Solve for x , x -10 = 8 x + 20 | (This Apower is Correct) | Marks : | 1 |
| Q 34 : | 31 42 Solve for x , x -10 = 8 x + 20 130/7 | (This Answer is Correct) | Marks : | 1 |
| Q 34 : | 31 42 Solve for x , x -10 = 8 x + 20 130/7 2 . 7/30 | (This Answer is Correct) | Marks : | 1 |
| Q 34 : | 31 42 Solve for x, x -10 = 8 x + 20 130/7 2. 7/30 3. 30 | (This Answer is Correct) | Marks : | 1 |
| Q 34 : | 31 42 Solve for x , x -10 = 8 x + 20 130/7 2 . 7/30 | (This Answer is Correct) | Marks : | 1 |
| Q 34 : | 31 42 Solve for x, x -10 = 8 x + 20 130/7 2. 7/30 3. 30 | (This Answer is Correct) | Marks : | 1 |
| | 31 42 Solve for x, x -10 = 8 x + 20 130/7 2. 7/30 3. 30 4. 7 | (This Answer is Correct) | | |
| | 31 42 Solve for x , $x - 10 = 8 x + 20$ 130/7 2. $7/30$ 3. 30 4. 7 Solve for x , $(13 x + 4) \div 6 = 5$ | (This Answer is Correct) | | |
| | 31 42 Solve for x , x -10 = 8 x + 20 130/7 2 . 7/30 3 . 30 4 . 7 Solve for x , (13 x + 4) ÷ 6 = 5 1 . 4 | | | |

| Q: | 36 : Solve for x , 5 (1 - 2 x) + 8 x = 15 | | Marks: | 1 |
|-----|---|--|---------|---|
| | 1. 0.05 | | | |
| | 2. 5 | | | |
| | 3. -5 | (This Answer is Correct) | | |
| | 4. 50 | | | |
| | | | | |
| Q: | 37: The sum of two numbers is 11 and one of them is 5 g | reater than the other. Find the numbers. | Marks : | 1 |
| | 1. 2,9 | | | |
| | 2.4,7 | | | |
| | 3.6,5 | | | |
| | 4. 3,8 | (This Answer is Correct) | | |
| Q: | 38: The number decreased by 7 is 25, find the number | | Marks : | 1 |
| | 1 . 32 | (This Answer is Correct) | | |
| | 2. 23 | <u> </u> | | |
| | 3. 30 | | | |
| | 440 | | | |
| Q: | 39 : The number increased by 10 is 16, find the number | | Marks : | 1 |
| | 1. 16 | | | |
| | 2. 6 | (This Answer is Correct) | | |
| | 3. 26 | | | |
| | 46 | | | |
| Q 4 | 40 : If 7 x - 2 = 21 + 10 x , then x is | | Marks : | 1 |
| | 1. a fraction | | | |
| | 2 . an integer | | | |
| | 3 . a rational number | (This Answer is Correct) | | |
| | 4 . none of these | | | |
| Q 4 | 41 : Solve for x , x + 5 x + 7 = 25 | | Marks : | 1 |
| | 1. 4 | | | |
| | 2. 2 | | | |
| | 3. 3 | (This Answer is Correct) | | |
| | 4. 6 | _ | | |
| | | | | |

| Q 42 : | Solve for y, 8 y - 3 - 5 y = 24 | | Marks: | 1 |
|--------|---|----------------------------|---------|---|
| | 1. 4 | | | |
| | 2. 2 | | | |
| | 3. 3 | | | |
| | 4. 9 | (This Answer is Correct) | | |
| Q 43 : | If angle at the centre of a circle is 40 °, angle at the circumference is | s° | Marks : | 1 |
| | 1. 80 | | | |
| | 2. 10 | | | |
| | 3. 30 | | | |
| | 4. 20 | (This Answer is Correct) | | |
| Q 44 : | If exterior angle of a cyclic quadrilateral is 50 °, then interior opposit | e angle is ° | Marks : | 1 |
| | 1. 100 | | | |
| | 2. 50 | (This Answer is Correct) | | |
| | 3. 120 | | | |
| | 4. 250 | | | |
| Q 45 : | If angle at the circumference of a circle is x° , angle at the centre is | o | Marks : | 1 |
| | 1. 2x | (This Answer is Correct) | | |
| | 2. 3x | _ | | |
| | 3. x | | | |
| | 4 . 4x | | | |
| Q 46 : | If a number is multiplied by 2 and 8 is added to the product, the rest | ult is 50.Find the number | Marks : | 1 |
| | 1 . 21 | (This Answer is Correct) | | |
| | 2. 42 | | | |
| | 3. 20 | | | |
| | 4.7 | | | |
| Q 47 : | Solve for x , 2 x ÷ 3 = 8 | | Marks : | 1 |
| | 1 . 12 | (This Answer is Correct) | | |
| | 2. 13 | | | |
| | 3. 14 | | | |
| | 4. 15 | | | |

| Q 48: | Solve for y , 1.5 y - 7 = 0.5 y | | Marks : | 1 |
|--------|--|---|---------|---|
| | 1. 8 | | | |
| | 2. 7 | (This Answer is Correct) | | |
| | 3. 9 | | | |
| | 4. 10 | | | |
| 0.40 | If $x^2 + 6x + 7 = x^2 + 5x + 12$, then x equals | | Marks : | 1 |
| Q 49 : | | (This Answer is Correct) | marks. | 1 |
| | 1.5 | (This Answer is correct) | | |
| | 2. 7 | | | |
| | 3. 9 | | | |
| | 4. 10 | | | |
| Q 50 : | Angle in a semicircle is° | | Marks : | 1 |
| | 1 . 90 | (This Answer is Correct) | | |
| | 2. 180 | _ | | |
| | 3. 360 | | | |
| | 4. 0 | | | |
| | If any applies of a succline supplied to 400 % the application is | | | |
| Q 51 : | If one angle of a cyclic quadrilateral is 100 °, the opposite angle is 1 . 75 2 . 70 | | Marks : | 1 |
| Q 51 : | 1. 75 | (This Answer is Correct) | marks: | 1 |
| Q 51 : | 1. 75 2. 70 | | Marks: | 1 |
| Q 51 : | 1. 75 2. 70 3. 80 | (This Answer is Correct) | Marks : | 1 |
| | 1. 75 2. 70 3. 80 4. 100 If radius of circle is 5cm, and length of chord is 8cm,then distancecm | (This Answer is Correct) | | |
| | 1. 75 2. 70 3. 80 4. 100 If radius of circle is 5cm, and length of chord is 8cm,then distancecm 1. 1 | (This Answer is Correct) | | |
| | 1. 75 2. 70 3. 80 4. 100 If radius of circle is 5cm, and length of chord is 8cm,then distancecm 1. 1 2. 2 | (This Answer is Correct) from centre to chord of circle is | | |
| | 1. 75 2. 70 3. 80 4. 100 If radius of circle is 5cm, and length of chord is 8cm,then distancecm 1. 1 2. 2 3. 3 | (This Answer is Correct) from centre to chord of circle is (This Answer is Correct) | | |
| Q 52 : | 1. 75 2. 70 3. 80 4. 100 If radius of circle is 5cm, and length of chord is 8cm,then distancecm 1. 1 2. 2 3. 3 4. 4 | (This Answer is Correct) from centre to chord of circle is (This Answer is Correct) | Marks : | 1 |
| Q 52 : | 75 70 80 100 If radius of circle is 5cm, and length of chord is 8cm,then distancecm 1 2 2 3 3 4 4 If angle at the centre of a circle is 70°, angle at the circumference | (This Answer is Correct) from centre to chord of circle is (This Answer is Correct) | Marks : | 1 |
| Q 52 : | 1. 75 2. 70 3. 80 4. 100 If radius of circle is 5cm, and length of chord is 8cm,then distance cm 1. 1 2. 2 3. 3 4. 4 If angle at the centre of a circle is 70°, angle at the circumference 1. 20 | (This Answer is Correct) from centre to chord of circle is (This Answer is Correct) | Marks : | 1 |

| 0.54 | is the longest chord of a circle | | Marks : | 1 |
|--------|--|----------------------------|---------|---|
| Q 54 : | 1 . Diameter | (This Answer is Correct) | warks. | ' |
| | 2 . Radius | (The rule lie contact) | | |
| | | | | |
| | 3. Tangent4. Secant | | | |
| | 4. Secant | | | |
| Q 55 : | Opposite angles of a cyclic quadrilateral are | | Marks : | 1 |
| | 1 . supplementary | (This Answer is Correct) | | |
| | 2 . complementary | | | |
| | 3. equal | | | |
| | 4 . none of these | | | |
| | | | | |
| Q 56 : | Angles at the same segment of a circle are | | Marks : | 1 |
| | 1 . supplementary | | | |
| | 2 . complementary | | | |
| | 3. equal | (This Answer is Correct) | | |
| | 4 . none of these | | | |
| | | | | |
| Q 57 : | The sum of any two sides of a triangle is than the third side | | Marks: | 1 |
| | 1. less | | | |
| | 2 . greater | (This Answer is Correct) | | |
| | 3 . equal | | | |
| | 4 . none of these | | | |
| | | | | |
| Q 58 : | Point of concurrence of the medians of a triangle is called | | Marks: | 1 |
| | 1. circumcentre | | | |
| | 2. orthocentre | | | |
| | 3. incentre | | | |
| | 4 . centroid | (This Answer is Correct) | | |
| | If any angle of a triangle is agreed to the course of the other two theres the | iha triangla ia | Moules | 4 |
| Q 59 : | If one angle of a triangle is equal to the sum of the other two, then t | | Marks : | 1 |
| | 1 . right angled | (This Answer is Correct) | | |
| | 2 . equiangular | | | |
| | 3. scalene | | | |
| | 4 . equilateral | | | |

| Q 60 : | A line from a vertex perpendicular to the opposite side of a to | riangle is | Marks : | 1 |
|--------|---|--|---------|---|
| | 1. hypotenuse | | | |
| | 2 . angle bisector | | | |
| | 3. altitude | (This Answer is Correct) | | |
| | 4. median | _ | | |
| Q 61 : | If $c^2 < a^2 + b^2$ in a triangle, then angle C is | | Marks : | 1 |
| | 1. acute | (This Answer is Correct) | | |
| | 2. obtuse | | | |
| | 3 . right angle | | | |
| | 4 . none of these | | | |
| Q 62 : | One number is 9 more than the other. If their sum is 63,what | are the numbers? | Marks : | 1 |
| | 1. 22,30 | | | |
| | 2. 27, 36 | (This Answer is Correct) | | |
| | 3. 12,51 | _ | | |
| | 4. 33,30 | | | |
| Q 63 : | The sum of two numbers is 64,and the second number is 16 | less than the first. Find the numbers. | Marks : | 1 |
| | 1. 20,44 | | | |
| | 2. 30,34 | | | |
| | 3. 24, 40 | (This Answer is Correct) | | |
| | 4. 17,38 | _ | | |
| Q 64 : | Find two consecutive even numbers whose sum is 86 | | Marks : | 1 |
| | 1. 43,44 | | | |
| | 2. 41,45 | | | |
| | 3. 40,46 | | | |
| | 4. 42,44 | (This Answer is Correct) | | |
| Q 65 : | Factorise, 16x - 40xy | | Marks : | 1 |
| | 1 • 4x (4 - 10y) | (This Answer is Correct) | | |
| | 2 . 4x (4x - 10y) | | | |
| | 3 . 4 (4x - 10y) | | | |
| | 4 . 4 (4x - 10) | | | |

Factorise, $(x-5)^2 - 3(x-5)$ Marks: 1 Q 66: 1. (x+5)(x-8)(This Answer is Correct) **2.** (x-5)(x-8) 3.(x-5)(x+8)4. (x-8) Factorise, 9x 2 - 16y 2 Marks: 1 Q 67: 1. (3x + 4y)(3x + 4y)2. (3x-4y)(3x-4y) (This Answer is Correct) **3.** (3x + 4y)(3x - 4y)4.(3x-4y)Which is not a factor of 18y 2 +36y? Marks: 1 Q 68: 1. 1 (This Answer is Correct) **2** . 4y 3. y + 2 4. 18y Factorise, x² + 8x + 15 Marks: 1 Q 69: 1. (x-5)(x-15) 2. (x-5)(x-3) 3.(x-5)(x+3)(This Answer is Correct) **4.** (x + 5)(x + 3)Factorise, 5x + 5y + ax + ayMarks: 1 Q 70: 1. (x-y)(5+y)(This Answer is Correct) 2. (x+y)(5+a) 3.(x+y)(5-y)4. none of these Factorise, x 2 - 2xy + y 2 Marks: 1 Q 71: 1. (x-y)(x+y)(This Answer is Correct) **2.** (x-y)(x-y)

(x-y)(x+y)
 none of these

(x+4)(x+2) =Marks: 1 Q 72: (This Answer is Correct) 1. $x^2 + 6x + 8$ $2. x^2 + 6x + 9$ 3. x²-6x+9 $4. x^2 - 5x + 9$ Marks: 1 (x+y)(x-y) =_____ Q 73: (This Answer is Correct) **1** . x ² - y ² 2. x² + y² 3. x²-y 4. x-y 99 ² is Marks: 1 Q 74: 1. 9811 (This Answer is Correct) **2.** 9801 3. 9900 4. 999 What must be added to 4a 2 + 9b 2 to make it a perfect square? Marks: 1 Q 75: 1. 12b 2. 12a (This Answer is Correct) **3** . 12ab 4. none of these Q 76: 41 × 39 = ____ Marks: 1 1. 1400 2. 1345 3. 1600 (This Answer is Correct) **4.** 1599

- **Q 77**: 91 ² 9 ² = _____
 - 1. 820
 - **2.** 8200
 - 3. 82000
 - 4. 2800

Marks: 1

(This Answer is Correct)

| O 78 · | (a+b) ² - (a+b) ² = | |
|--------|---|--|

- **1** . 4ab
- 2. ab
- 3. 2ab
- 4. a+b

(This Answer is Correct)

Marks: 1

Marks: 1

Marks: 1

Q 79 : Circle has _____ lines of symmetry

- 1 . Infinite
- 2. 0
- 3. 1
- 4.2

(This Answer is Correct)

Q 80: 7 times a number equals 3 less than 5 times that number, the number is ____

(This Answer is Correct)

- **1.** -1.5 2. 2/3
- 3. 14
- 4. 0.25