Oxford International School



EOY Examination 2024-25

Grade: VIII

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(In Block Letters)

Date: \_\_\_\_\_\_\_\_­­­­\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Subject: - MATHS Time: 3 Hours T. Marks: 100

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| Index No |  |  |  |  |

Instructions

Put your Name and Date at given place.

Read the paper thoroughly and answer those questions first for which you are sure about the answers.

Every question is with different instructions. Focus & Follow it.

Don’t need to write all the questions. You can put the Question no. put it correctly.

Re check the paper/ answer script after completion.

========================== don’t write under this line ===========================

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|  | SEGMENT A | | | | | SEGMENT B | | | | | | | SEGMENT C | | | Total |
| Question. No | Q1 | Q2 | Q3 | Q4 | Q5 | Q6 | Q7 | Q8 | Q9 | Q10 | Q11 | Q12 | Q13 | Q14 | Q15 |  |
| Total. No. | 5 | 10 | 10 | 10 | 10 | 5 | 8 | 5 | 5 | 4 | 5 | 3 | 8 | 8 | 4 | 100 |
| Marks Obtained |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

Invigilated By \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Invigilator’s Sign \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Checked By \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Checker’s Sign \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Re Checked By \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Re Checker’s Sign \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**SEGMENT A**

**Q1: Multiple Choice Questions. /5**

1. All Quadratic equations produce \_\_\_\_\_\_ shaped graphs

a. U shape b. Rectangular shape c. none

1. X2-5x-6=0 is a \_\_\_\_\_\_\_ equation.
2. Both b and c b. Quadratic equation c. Constant
3. Quadratic equation is an equation with \_\_\_\_\_\_\_ variable. a. squared b. circle d. rectangle
4. What is the value of x when x+8=15? a. 5 b. 7 c. 4
5. = \_\_\_\_\_ a. 7 b. 3 c. 5
6. 2x = 10 \_\_\_\_ a. 5 b. 7 c. 8
7. Reverse the inequality sign if we multiply or divide both sides by a \_\_\_\_\_ number.
   1. Positive b. Negative c. Both a and b
8. a0 = \_\_\_\_\_ a. 2 b. 1 c. 0
9. The Horizontal axes is called \_\_\_\_\_\_ axes. a. x axis b. y axis c. both
10. The Vertical axes is called \_\_\_\_\_\_\_ axes. a. x axis b. y axis c. both

**Q2: Solve the given questions. /10**

1. The quadratic equation formula is \_\_\_\_\_\_
2. The gradient formula is \_\_\_\_\_\_
3. 2(x+1) = \_\_\_\_\_
4. Divide 195 by 5
5. We get the new function called the \_\_\_\_\_\_ function.
6. Multiply 88 by 8 and then subtract 8.
7. 54 the exponent is \_\_\_\_\_
8. 54 the base is \_\_\_\_\_\_
9. Simplify 54 \_\_\_\_\_
10. Simplify 2-3 \_\_\_\_\_

**Q3: Fill in each box with ‘<’ , ‘>’ , ‘≤’ or ‘≥’ /10**

|  |  |
| --- | --- |
| If x>y, then -6x\_\_\_6x | If 6 \_\_\_ -12 |
| If 5 + h \_\_\_ 7 + h where h Is a real number | If -6-6 \_\_\_ -11 |
| If 5 - k \_\_\_ 7 - k where Is a real number | If 0 \_\_\_\_ -11 |
| If 6 +2 \_\_\_\_ 12 + 2 | If -6-4 \_\_\_\_ 12-4 |
| If 6-4 \_\_\_\_ 12-4 | If 33 \_\_\_\_ -33 |

**Q4: Solve each of the following equation. /10**

* 1. **2x2 + 5x -7 = 0**
  2. **4x2 – 5x -6 = 0**

**Q5: Solve each of the following equation, giving your answer correct to 2 decimal places where it’s necessary. /10**

1. **(x+1)2  = 9**
2. **(2x+1)2 = 16**

**SEGMENT B**

**Q6: if g(x) = x2 + 5, find the value each of the following. /5**

1. g(a)
2. g(a+1)

**Q7: if F(x) = 1/2 x(x+1), evaluate the following. (Any 2) /8**

1. F(1)
2. F(2)
3. F(3)

**Q8: Solve each of the following inequalities, illustrating each solution on a number line. /5**

1. a + 2 < 3
2. b-3 **≥** 4

**Q9: Solve each of the following inequalities /5**

1. -5x < 25
2. -12x **≥** 138

**Q10: Simplify each of the following, leaving your answer in index notation where appropriate. /4**

1. 24 x 27  b. (-4)6 x (-4)5
2. X8 x x3 d. (3y2) x (8y7)

**Q11: Simplify each of the flowing, leaving your answer in index notation where appropriate. /5**

1. (92)4 b. (h2)5

**Q12: Evaluate each of the following. /3**

1. 170 b. (-)0

**SEGMENT C**

**Q13: The variable x and y are connected by the equation y = 2x2 – 5x + 1. /8**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **X** | **-1** | **0** | **1** | **2** | **3** | **4** |
| **y** |  |  |  |  |  |  |

**Q14: Evaluate each of the following without the use of a calculator. /8**



**Q15: Find the gradient of the line passing through each of the following pairs of point. /4**

1. **A(0,0) and B(-2,1)**
2. **C(2,-3) and D(1,7)**