CHEMISTRY ONLINE
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PURE MATH

ALGEBRA AND FUNCTION

Level & Board	EDEXCEL (A-LEVEL)
TOPIC:	STRAIGHT LINE
PAPER TYPE:	QUESTION PAPER - 2
TOTAL QUESTIONS	8
TOTAL MARKS	45

Questions

Q1.

The equation of the line passing through points C (2, 5) and D (6, -1).Find an equation for l.

(5)

(Total for question = 5 marks)

Q2.

The equation of the line passing through points I (1, 4) and J (2, 6). Find an equation for l.

(4)

(Total for question = 4 marks)

Q3.

Consider two lines with the equations:

Line 3: $3x - 2y + 5 = 0$

Line 4: $y = nx - 2$

(a) find the value of 'n' such that Line 3 and Line 4 are perpendicular.

(3)

(b) find the x-coordinate of the point 'Q' where the two lines intersect.

(3)

(Total for question = 6 marks)

Q4.

Consider two lines with the equations:

Line 5: $4x+3y-6 = 0$

Line 6: $y = px+2$

(a) find the value of 'n' such that Line 5 and Line 6 are perpendicular.

(4)

(b) find the x-coordinate of the point 'R' where the two lines intersect.

(4)

(Total for question = 8 marks)

Q5.

The equation of the line passing through points A (3, 1) and B (4, – 2) Find an equation for l.

(4)

(Total for question = 4 marks)

Q6.

The line l1 has equation $2x + 4y – 3 = 0$

The line l2 has equation $y = mx + 7$, where m is a constant.

Given that l1 and l2 are perpendicular,

(a) find the value of m.

The lines l1 and l2 meet at the point P.

(3)

(b) Find the x coordinate of P.

(4)

(Total for question = 7 marks)

Q7.

The equation of the line passing through points A (-1, 3) and B (5, 7). Find an equation for l.

(4)

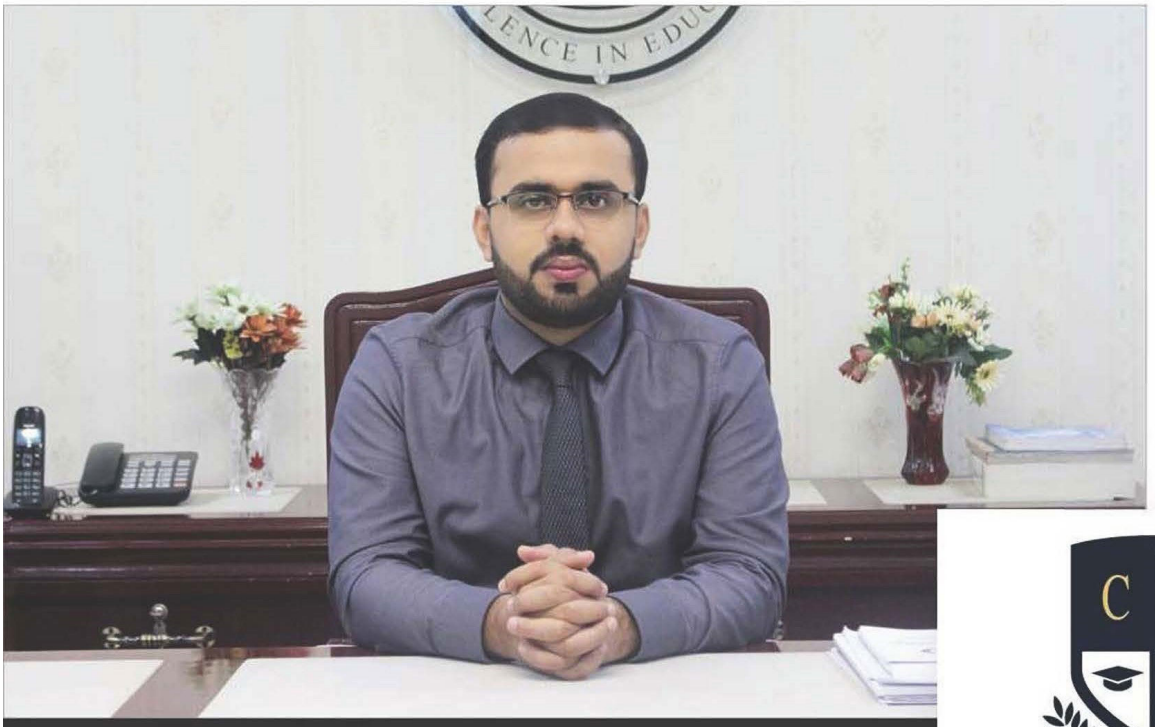
(Total for question = 4 marks)

Q8.

The equation of the line passing through points G (2, 5) and H (5, – 3) Find an equation for l.

(4)

(Total for question = 4 marks)



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