

DIPLOMA IN ELECTRICAL AND ELECTRONICS ENGINEERING (ODL)

ENGINEERING MATHEMATICS 1 DEE 4133

WRITTEN TEST

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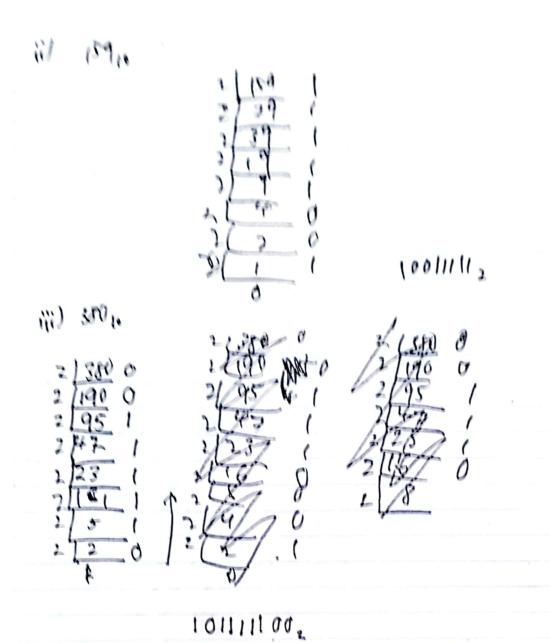
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$$2^{4} + 2^{3} = 16 + 8 - 24$$
ii) 0!!!
$$2^{2} \cdot 3^{2} \cdot 2^{3}$$

$$2^{2} + 2^{3} = 4 + 2 + 1$$

$$= 7$$

b) i) 5062,0	Rembde
	2 15062 0
8	2 2531
	2 (265)
	2/692 0
	2 3 (6 0
- 1	2 (58) 0
	2/20/
	2/39
	2/19 / 4
	2/9
	2 4 0
	2 2 0
	2 01 01
,	0
	100111(0001102
	1001111000



Q2
a)
$$(2-2+)(-2+3+3)$$

$$= -4+6+4+3-6+4$$

$$= -4+10+4$$

$$= 2+10+4$$

031 1) 12x2 -7x + 1 we quadratic equation $X = -(-7) \pm \sqrt{(-7)^2 - 4.12.1}$ $= \frac{-(-7)\pm 1}{2 \cdot 1 \cdot 1} = \frac{7 \pm 1}{24}$ ANT X = 24 W 4 X = 24 3 x, - 4 ii) x3 -3x2 -9x -5 use rational root theorem $= (x + 1) (x^{3} - 3x^{2} - 9x - 5)$ $= x^{3} - 3x^{4} - 9x - 5$ $= x^{2} - 4x - 5$ $= x^{2} - 4x - 5$ = (x +1)(x 2-4x -5) =(x+1)(X+1)(x-5) =(X+1)2(X-5)

b) saface = 6×1	
area -	
1x 5 6x2	
3.5 x 3.5 = 12.25 inche 2 [surface area]	
since it has 6 surface for the dice will	
equal surface area therefore	
6(12.25) = 73.5 Inche ²	
X = 3.2	
χ ² = 12.25/ 6χ ² = 6(12.25/ = 73.5 in the c	
6x2 = 6(12.25/	
=73.5 inche c	