Quiz 8.3 – Quantum Numbers

Name:				
	ne hydrogenic ator ossible electron st		which only app	olies for atoms with 1 electron). Two
	3s	${3p}$		$\overline{}$ $\overline{}$ $3d$
				_
		2s	2p	

1s

Question 1 (2 points)

Give the four quantum numbers for each of the two electrons shown on the diagram above

Question 2 (3 points)

On the diagram above, draw electrons with the following quantum numbers:

$$n = 2, l = 1, m_l = 1, m_s = \frac{1}{2}$$

$$n = 3$$
, $l = 2$, $m_l = 0$, $m_s = -\frac{1}{2}$

$$\circ$$
 $n=1$, $l=0$, $m_l=0$, $m_s=-rac{1}{2}$

On Shakespeare. 1630

By John Milton

What needs my Shakespeare for his honoured bones, The labor of an age in pilèd stones, Or that his hallowed relics should be hid Under a star-ypointing pyramid? Dear son of Memory, great heir of fame, What need'st thou such weak witness of thy name? Thou in our wonder and astonishment Hast built thyself a live-long monument. For whilst to th' shame of slow-endeavouring art, Thy easy numbers flow, and that each heart Hath from the leaves of thy unvalued book Those Delphic lines with deep impression took, Then thou, our fancy of itself bereaving, Dost make us marble with too much conceiving; And so sepúlchred in such pomp dost lie, That kings for such a tomb would wish to die.