

CHAPTER 4 REVIEW

Arrangement of Electrons in Atoms**SECTION 2****SHORT ANSWER** Answer the following questions in the space provided.

1. _____ How many quantum numbers are used to describe the properties of electrons in atomic orbitals?
(a) 1 (c) 3
(b) 2 (d) 4
2. _____ A spherical electron cloud surrounding an atomic nucleus would best represent
(a) an s -orbital. (c) a combination of two different p -orbitals.
(b) a p -orbital. (d) a combination of an s and a p -orbital.
3. _____ How many electrons can an energy level of $n = 4$ hold?
(a) 32 (c) 8
(b) 24 (d) 6
4. _____ How many electrons can an energy level of $n = 2$ hold?
(a) 32 (c) 8
(b) 24 (d) 6
5. _____ Compared with an electron for which $n = 2$, an electron for which $n = 4$ has more
(a) spin. (c) energy.
(b) particle nature. (d) wave nature.
6. _____ According to Bohr, which is the point in the figure below where electrons cannot reside?
(a) point A (c) point C
(b) point B (d) point D



7. _____ According to the quantum theory, point D in the above figure represents:
(a) the fixed position of an electron.
(b) the furthest position from the nucleus that an electron can achieve.
(c) a position where an electron probably exists.
(d) a position where an electron cannot exist.

Electrons In Atoms Test Review Answer

M Woodhall



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web the control circuit is based on a cmos inverter ic1 type 40106 the motor is switched by a darlington with discrete components t1 t2 ic1a inverter operates as an oscillator whose duty cycle the t2 leads so the motor receives energy is determined by r2 c2 d3 gave the inactive signal oscillator when t2 is blocked is determined by r3 p1

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