

# ATOMIC STRUCTURES

# MULTIPLE CHOICE QUESTIONS

The wave function ψ of 2s – orbital is given by

$$\psi_{2s} = \frac{1}{2\sqrt{2\pi}} \left(\frac{1}{a_0}\right)^{1/2} \left(2 - \frac{r}{a_0}\right) e^{-rcz_{200}}$$

At  $r = r_0$ , radial node is formed. Which of the following is correct?

(a) 
$$r_0 = 2a_0$$

(b) 
$$2r_0 = a_0$$

(c) 
$$r_0 = 3a_0$$

(d) None of these is correct

Explanation: (a)

At 
$$r = r_0 \psi_{2x}^2 = 0$$

It is possible only when  $2 - \frac{r}{a_n} = 0$ 

2. Which of the following set of quantum numbers belong to highest energy?

(a) 
$$n = 2$$
,  $l = 1$ ,  $m = 0$ ,  $s = +\frac{1}{2}$ 

(b) 
$$n = 3$$
,  $l = 0$ ,  $m = 0$ ,  $s = +\frac{1}{2}$ 

(c) 
$$n = 4$$
,  $l = 0$ ,  $m = 1$ ,  $s = +\frac{1}{2}$ 

(d) 
$$n = 4$$
,  $l = 1$ ,  $m = 1$ ,  $s = +\frac{1}{2}$ 

Explanation: (d)

# **Chemistry Atomic Theory Questions**

**RJ Shavelson** 

#### **Chemistry Atomic Theory Questions:**

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