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SOAL URAIAN MENENTUKAN KONFIGURASI ELEKTRON ATOM DAN MENENTUKAN BILANGAN KUANTUM

Soal 1

Tuliskan konfigurasi penuh elektron untuk atom-atom dibawah ini,

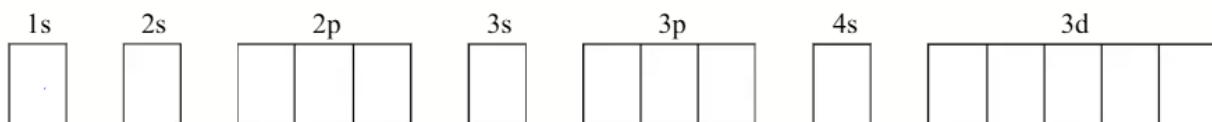
a.	^{27}Co	
b.	^{38}Sr	
c.	^{18}Ar	
d.	^{48}Cd	
e.	^{54}Xe	
f.	^{35}Br	
g.	^{55}Cs	
h.	^{82}Pb	
i.	^{31}Ga	
j.	^{40}Zr	

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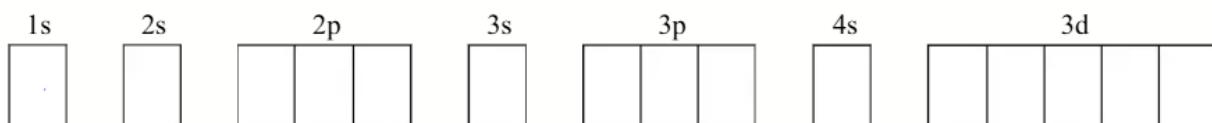
Soal 2

Lengkapi atom-atom berikut dengan elektron sesuai dengan konfigurasi elektronnya

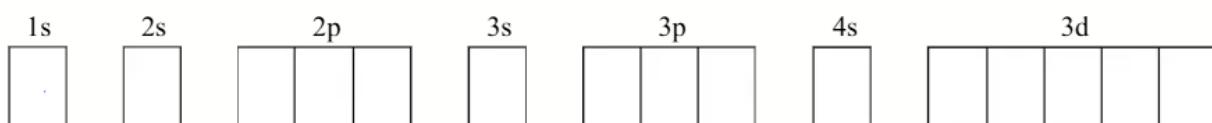
${}_{\text{1}}\text{H}$



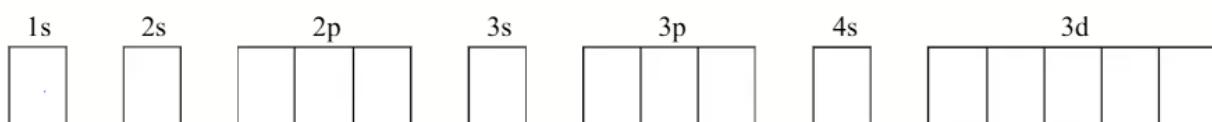
${}_{\text{8}}\text{O}$



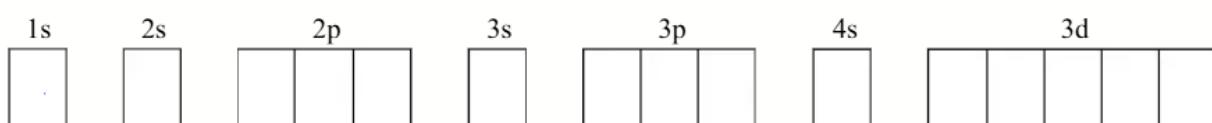
${}_{\text{11}}\text{Na}$



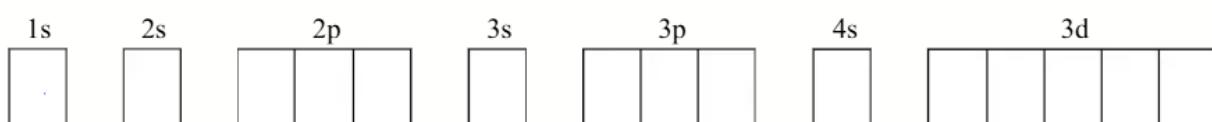
${}_{\text{22}}\text{Ti}$



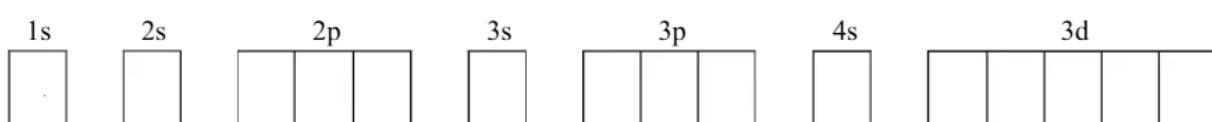
${}_{\text{19}}\text{K}$



${}_{\text{13}}\text{Al}$

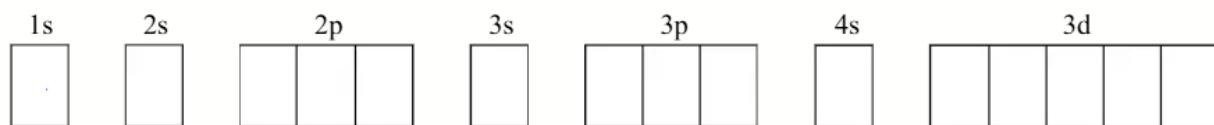


${}_{\text{15}}\text{P}$

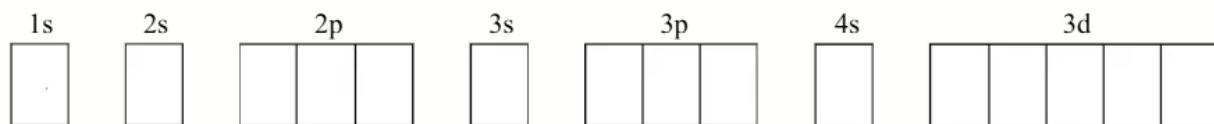


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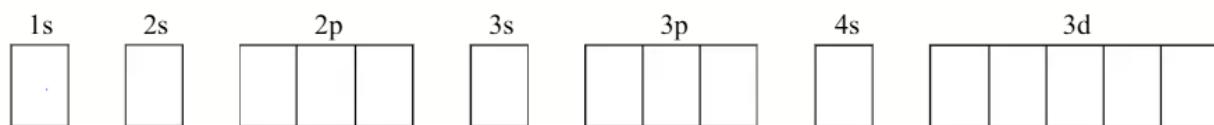
$_{20}\text{Ca}$



$_{17}\text{Cl}$



$_{28}\text{Ni}$



Soal 3

Tulislah keempat bilangan kuantum elektron terakhir untuk unsur-unsur dibawah ini

Unsur	n	l	m	s
$_{1}\text{H}$				
$_{2}\text{He}$				
$_{3}\text{Li}$				
$_{4}\text{Be}$				
$_{5}\text{B}$				
$_{6}\text{C}$				
$_{7}\text{N}$				
$_{8}\text{O}$				
$_{9}\text{F}$				
$_{10}\text{Ne}$				
$_{11}\text{Na}$				
$_{12}\text{Mg}$				
$_{13}\text{Al}$				
$_{14}\text{Si}$				
$_{15}\text{P}$				
$_{16}\text{S}$				
$_{17}\text{Cl}$				
$_{18}\text{Ar}$				
$_{19}\text{K}$				
$_{20}\text{Ca}$				

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Soal 4

Periksalah apakah penulisan empat bilangan kuantum ini benar atau salah

- | | | | |
|----------------------------|-----------------------------|-----------------------------|-----------------------------|
| a) 1, 0, 0, $+\frac{1}{2}$ | d) 1, 3, 0, $+\frac{1}{2}$ | g) 3, 2, 0, $+\frac{1}{2}$ | j) 2, 2, 2, $-\frac{1}{2}$ |
| b) 2, 0, 1, $-\frac{1}{2}$ | e) 3, 1, -1, $+\frac{1}{2}$ | h) 4, 2, -2, $-\frac{1}{2}$ | k) 4, 4, 0, $+\frac{1}{2}$ |
| c) 3, 2, 1, 0 | f) 1, 1, 1, $+\frac{1}{2}$ | i) 3, 1, 2, $-\frac{1}{2}$ | l) 5, 3, -2, $+\frac{1}{2}$ |