

Key

26. (a) $P(1s^2 2s^2 2p^6 3s^2 3p^3)$
(b) $Ti(1s^2 2s^2 2p^6 3s^2 3p^6 4s^2 3d^2)$
(c) $Co(1s^2 2s^2 2p^6 3s^2 3p^6 4s^2 3d^7)$
(d) $Br(1s^2 2s^2 2p^6 3s^2 3p^6 4s^2 3d^{10} 4p^5)$
(e) $Sr(1s^2 2s^2 2p^6 3s^2 3p^6 4s^2 3d^{10} 4p^6 5s^2)$
(f) $Ar(1s^2 2s^2 2p^6 3s^2 3p^6)$
(g) $K(1s^2 2s^2 2p^6 3s^2 3p^6 4s^1)$
(h) $Cd(1s^2 2s^2 2p^6 3s^2 3p^6 4s^2 3d^{10} 4p^6 5s^2 4d^{10})$
(i) $Ca(1s^2 2s^2 2p^6 3s^2 3p^6 4s^2)$
(j) $Xe(1s^2 2s^2 2p^6 3s^2 3p^6 4s^2 3d^{10} 4p^6 5s^2 4d^{10} 5p^6)$
(k) $Cs(1s^2 2s^2 2p^6 3s^2 3p^6 4s^2 3d^{10} 4p^6 5s^2 4d^{10} 5p^6 6s^1)$
(l) $Pb(1s^2 2s^2 2p^6 3s^2 3p^6 4s^2 3d^{10} 4p^6 5s^2 4d^{10} 5p^6 6s^2 4f^{14} 5d^{10} 6p^2)$
(m) $Ga(1s^2 2s^2 2p^6 3s^2 3p^6 4s^2 3d^{10} 4p^1)$
(n) $Mn(1s^2 2s^2 2p^6 3s^2 3p^6 4s^2 3d^5)$
(o) $Zr(1s^2 2s^2 2p^6 3s^2 3p^6 4s^2 3d^{10} 4p^6 5s^2 4d^2)$
27. (a) $P([Ne] 3s^2 3p^3)$ (f) $Ar([Ne] 3s^2 3p^6)$ (k) $Cs([Xe] 6s^1)$
(b) $Ti([Ar] 4s^2 3d^2)$ (g) $K([Ar] 4s^1)$ (l) $Pb([Xe] 6s^2 4f^{14} 5d^{10} 6p^2)$
(c) $Co([Ar] 4s^2 3d^7)$ (h) $Cd([Kr] 5s^2 4d^{10})$ (m) $Ga([Ar] 4s^2 3d^{10} 4p^1)$
(d) $Br([Ar] 4s^2 3d^{10} 4p^5)$ (i) $Ca([Ar] 4s^2)$ (n) $Mn([Ar] 4s^2 3d^5)$
(e) $Sr([Kr] 5s^2)$ (j) $Xe([Kr] 5s^2 4d^{10} 5p^6)$ (o) $Zr([Kr] 5s^2 4d^2)$