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#### AQA A-level Chemistry exam practice answers

# 21: Transition metals

- 1 (a) At least one ligand donates an electron pair [1]; to a transition metal ion to form a coordinate bond [1]
  - (b) CH<sub>4</sub> [1]; no lone pair available to form a coordinate bond [1]
  - (e) (i) +3[1]
    - (ii) 4[1]
    - (iii) Tetrahedral [1]; square planar [1]
- 2 (a) (i) Electrons are promoted from a lower energy state to a higher energy state [1]; the energy difference, ΔE, between these two energy states determines the frequency of visible light absorbed [1]; pink light is transmitted because it is not absorbed [1].
  - (ii) ΔE is the energy difference between the lower and upper energy states [1]; h is the Planck constant [1]; v is the frequency of the radiation emitted [1]
  - (iii) [Co(H<sub>2</sub>O)<sub>6</sub>]<sup>2</sup>·(aq) + 4Cl·(aq) → [CoCl<sub>4</sub>]<sup>2</sup>·(aq) + 6H<sub>2</sub>O(l) [1] for all chemical species; [1] for balancing
  - (iv) Tetrahedral [1]; chloride ions are larger than oxygen atoms in water molecules [1]; more space needed/more repulsion between ligands [1]

 $(\mathbf{v})$ 

O [1]; two lone pairs available, one on each carboxylate group [1]

(b) (i) [Co(H<sub>2</sub>O)<sub>6</sub>]<sup>2</sup>·(aq) + 2C<sub>2</sub>O<sub>4</sub><sup>2</sup>·(aq) → [Co(C<sub>2</sub>O<sub>4</sub>)<sub>2</sub>(H<sub>2</sub>O)<sub>2</sub>]<sup>2</sup>·(aq) + 4H<sub>2</sub>O(l) [2] coordination number = 6 [1]; octahedral [1]

(111)

# **Chemistry Ch21 Study Guide Key Answers**

**J Dewey** 

# **Chemistry Ch21 Study Guide Key Answers:**

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