

**Chapter 4 - Answers**

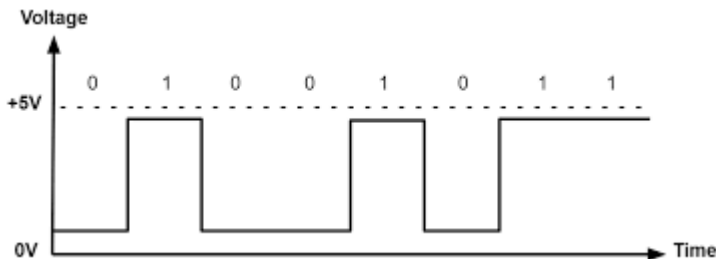
Q1 Draw an analogue signal.

**An analogue signal is a signal that changes in amplitude over time when impacted by an external data.**



Q2 Draw a digital signal.

**A digital signal represents data as discrete values.**



Q3 What is an ADC and a DAC?

**A method to convert analogue signals to digital and reconvert them back to analogue is needed.**

**The analogue to digital conversion is referred to as the ADC.**

**The digital to analogue conversion is referred to as DAC.**

Q4 Explain duty cycle in your own words.

**The duty cycle is the ratio of the time a piece of equipment is operating to time it is off.**

**An amateur transmitter is not designed for 100% transmission time so has a duty cycle included in the design and should be operated within the manufacturer's parameters.**