**Technological Development question**

**A**

Examples of 2-mark responses:

**Player piano**

The first player piano device was invented in the 1840s, however the pneumatic version that was in wide spread use was invented in the early 1900s.It was most popular in the 1920s but became obsolete by the 1930s following the Wall Street crash.

**Electric guitar (solid body)**

The Fender Broadcaster/Telecaster was the first successfully commercial solid-body electric guitar. It was released in 1950. Leo Fender designed the guitar.

**Synthesiser**

Synthesised sounds were invented as early as the 1890s, but the first voltage controlled synthesisers were invented in the late 1950s with the first Moog synthesiser being invented in the 1960s.

**B**

Examples of 2-mark responses:

**Player piano**

a player piano is a self-playing piano fitted with a rotating roll of perforated paper. The piano action is operated pneumatically.

**Electric guitar (solid body)**

an electric guitar uses magnetic pickups to convert the vibration of the strings into electrical signals. The electrical output must then be amplified.

**Synthesiser**

a synthesiser is an electronic musical instrument that processes waveforms generated by an oscillator using filters, envelopes, and LFOs.