### Example assessment questions for audio classification and keyword spotting

Question

Which of the following are good uses of audio classification (select all that apply)

1. **Translating spoken words to computer-encoded text**
2. Translating handwriting to computer-encoded text
3. **Tracking wildlife**
4. **Identifying anomalous noises in an industrial robot**

Question

In a digital system, audio signals are sampled at a regular interval. A sampling period of 125 microseconds translates to a sampling rate of what (given in Hz)?

Answer: 8000 Hz

Question

A sampled audio signal with a bit depth of 8 bits has more resolution than an audio signal with a bit depth of 16 bits.

1. True
2. False

Explanation: The higher the bit depth, the more resolution.

Question

Keyword spotting is used to identify one (or a few) words out of many to trigger or wake up a device.

1. **True**
2. False

Question

You must keep the following factors in mind when creating a keyword spotting dataset (select all that apply):

1. **End user accents and pronunciations**
2. **Environment background noise**
3. **Acceptable false detection rate**
4. **Distractors (e.g. other nearby voices) given to the model**