2 A student has a sound file that is too large to be stored on their external secondary storage device. The student compresses the sound file to make the file size smaller.

The compression method used reduces the sample rate and the sample resolution of the sound file.

(a) State what is meant by the sample rate and sample resolution.

Sample rate .....

.....

Sample resolution .....

.....

[2]

(b) Identify which type of compression has been used to compress the sound file.

.....

..... [1]

(c) The student sends the sound file to a friend. The file is transmitted across a network that uses packet switching.

(i) Identify **two** pieces of data that would be included in the header of each packet.

1 .....

2 .....

[2]

(ii) Explain how the file is transmitted using packet switching.

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..... [5]