
Chapter # 10 – Sound and Video Editing.

June 2017 – P13

- 8 A recording company has produced a video of one of its famous singers. The video has been given to John to edit so that it will have a fully professional look. The soundtrack has been sent separately to the video file.
Describe how John would use the following features of video editing software.

Trimming

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Adding sound

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Adding captions

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[6]

Question 8**Answer:**

8	<p>Two marks each from:</p> <p><i>Trimming –</i> On the Timeline he would position the cursor over the in/start or out/end point When the trim handles appear drag the handle to trim the clip... ...action the trim</p> <p><i>Adding sound –</i> In the software he would open the video and audio files that he wants to merge Then drag the added files to the corresponding tracks on the timeline board The video file would be placed on the video track and the audio file on the audio track</p> <p><i>Adding captions –</i> Once he has chosen the style he wants, right-click it and select where he wants to place it He would select start of the video track/add to the end of the video track/add to the title track Then double-click the title frame in the preview window and type or paste the text.</p>	6
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November 2017 – P11 & P12

10 Chow uses sound editing software to vary the sampling rate in an audio file.

Describe what is meant by sampling and how the sampling rate affects audio file sizes.

Answer:

10	<p>Four from:</p> <p>Digital audio is a series of discrete bursts called samples The frequency that these samples occur is so fast it sounds like a continuous sound The sampling rate is the number of samples within a given period of time A higher sampling rate sounds better than a lower rate Each sample uses up storage space so the lower the sampling rate the less storage capacity is required.</p>	4
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June 2018 – P11

- 9 A company has its own website and wishes to add a music soundtrack. Its web designers will need to edit the soundtrack before uploading it. They will need to use sound editing software.

Describe, including their effects, the following aspects of sound editing software.

- (a) Sampling rate

Answer:

9(a)	<p>Two from:</p> <p>This is the frequency at which sound samples are taken/number of samples in a given period of time There is a minimum rate at which samples need to be taken in order to faithfully reproduce the original signal Decreasing sampling rate can lead to distortion of the original.</p>	2
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- (b) Sampling resolution

Answer:

9(b)	<p>Two from:</p> <p>The number of bits used to carry the data in each samples of sound usually, 8 or 16 bits Decreasing sound sample resolution results in lower quality It can reduce file size and save storage space.</p>	2
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- (c) Trimming

Answer:

9(c)	<p>Two from:</p> <p>Cuts part of the sound out reducing the length of the track Reduces file size Enables unwanted sounds to be removed.</p>	2
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June 2019 – P13

- 4 The quality of a sound recording when processed by audio editing software depends on the sampling resolution of the recording.

Describe, using examples, what is meant by sampling resolution and explain how it affects audio file sizes.

Answer:

4	<p>Five from:</p> <p>Sampling resolution is the number of bits per sound sample Sampling resolution is the maximum accuracy of each measurement taken of a wave form when creating an audio file The higher the sampling resolution the more accurately the wave form will be converted from analogue to digital The higher the sampling resolution the greater the size of the file Digital audio is normally found in 8 bit or 16 bit resolutions 8-bit resolution was used in the earliest sound cards and is used for some lower-quality recording formats as well each sound sample can take one of 256 different values which is not generally considered enough resolution to accurately represent music audio 16-bit resolution is the standard for compact disc audio and newer sound cards Each sample can take one of 65 536 different values more than any human can readily discern These values are all per channel For stereo audio two channels are needed This doubles the sampling and memory requirements The higher the sample resolution, the more accurate the representation of the level of each sample but more memory is required to store each sample.</p>	5
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