Unit 11

True/False
Indicate whether the statement is true or false.

_____   1. Analog audio records each point along the way.

_____   2. Sample rates often range from 8 to 48 KHz.

_____   3. Channels determine if sound is recorded in mono or stereo.

_____   4. AAC is an audio file that uses lossy compression and is propietary to Microsoft.

_____   5. If you want to use a sound from a previously recorded CD, you can copy the file to a computer.

_____   6. Ripping a CD to provide others with a copy of the music is considered piracy.

_____   7. A computer uses a sound card that is integrated into the motherboard or added as an additional
             component.

_____   8. Sound card jacks are often color coded as well as identified by icons which helps the user to know which
             ports to use.

_____   9. The ability to capture digital sound requires equipment such as a microphone, but no software is required.

_____   10. MIDI records the vibrations or sounds and notes that were played and other information such as the
             duration the note was held.

_____   11. Software used to edit sounds is called a sound editor.

_____   12. Sounds editors can be used to convert sound from one format to another.

Multiple Choice
Identify the choice that best completes the statement or answers the question.

_____   1. Recorded as a series of waves reproducing approximately what the human ear can recognize is known as
             _____ audio.
             a. digital   c. CDs
             b. analog   d. codecs

_____   2. The number of times sound is measured is known as
             a. sample size.   c. sample rate.
             b. KHz.   d. hertz.

_____ 3. The number of sample points along a scale ranging from 8 to 32 points is
   a. sample rate.   c. hertz.
   b. sample size.   d. KHz.

_____ 4. The software used to compress sound is referred to as an audio
   a. digitizer.   c. sampler.
   b. analog.   d. codec.

_____ 5. The audio format that is used primarily on the Macintosh is
   a. AU.   c. WAV.
   b. AIFF.   d. MP3.

_____ 6. All of the following use lossy compression EXCEPT
   a. MP3   c. AAC
   b. WMA   d. AU

_____ 7. Audio file formats fall into two categories: those that are compressed with lossless algorithms, and those
   that are created using _____ algorithms.
   a. lossy   c. editable
   b. natural   d. uncompressed

_____ 8. A(n) _____ is a speaker that reproduces very low bass sounds.
   a. DAC   c. subwoofer
   b. ADC   d. subspeaker

_____ 9. The acronym used to describe the process of coverting sound from digital to analog is _____.
   a. DAC   c. SUB
   b. ADC   d. CDA

_____ 10. The acronym used to describe the converting of sound from analog to digital is _____.
   a. CDA   c. CAD
   b. ADC   d. SUB

_____ 11. MIDI is an acronym that stands for
   a. Magical Interface Digital Instrument.
   b. Musical Instrument Digital Interface.
   c. Musical Interface DC Interface.
   d. Musical Innovative Digital Instrument.

_____ 12. A graphical display that represents the changes in recorded sound waves is a(n) _____.
   a. wave editor   c. sound editor
   b. ADC   d. waveform

Short Answer

1. Explain how analog and digital audio are different.