Lesson 3

Introduction - Digital Audio Basics

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- 1. The Sample Sample is the number of measurements taken from an analog signal in one second. (in this lesson in this manual)
- 2. When we allow frequencies that are twice our sample rate to enter the sampling process, we get A-IAL FREQUENCY or sounds that are actually harmonic distortion. (page 206)
- 3. Quantization is the way Digital Audio Workstation (D.A.W.) records the volume component of the digital recording or sampling process. (page 203)
- 4. ______ is applied to the process to reduce quantization errors and increase in noise and/or fuzziness that could creep into a bitstream to make it sound more natural. (Page 208-209)
- 5. List and explain in detail the Nyqist theorem. (page 205)
- 6. The basic theory of digital audio is processed, stored, and reproduced over time through the use of a 3 14 024 NUMBER 578757. (page 199)
- 7. Mp3 is the most common type of compression format for e-mailing audio. (page 377-378)
- 8. When we rip a CD to MP3, we reduce the size _______ percent. (page 26, Recording Connection Workbook)

NAQUEST. IN ORSER FOR THE DESIRED FREQUENCY MANSWIMMED TO BE FAITHFULLY ENCOSED IN THE DIGITAL DOMAIN, THE SELECTED SAMPLE RATE MUST BE AT CLAST TWICE AS NIDA AS THE HISMEST FREQUENCY TO BE RECORDED - LOW PASS FILTERS ELIMINATE FREQUENCIES ABOVE NYQUIST FREQ.

- COMPUTERS CAN ONLY ACCURATELY REPRESENT FREQUENCIES OF THE OWNER OF THE UP TO 8000 HZ

EN-16000 SAMPLES SECOND CAPTURE UP TO 8000 HZ