



# ? "Test for Quick Audio Men" English Questions 1

Write down quickly a numerical value or a slogan.

UdK Berlin  
Sengpiel  
10.96  
F + A

1. What is the frequency of the sinusoidal high frequency (HF) bias used on the recording head of an analog studio tape machine with 38 cm/s (15"/s) tape speed?
2. What do you choose as your frequency sine wave test tone when setting up the high frequency (HF) bias for this tape machine?
3. What attenuation in dB above the sensitivity maximum, you set the bias regulator as operating point for optimization of the tape make (sort)?
4. The distortions (THD) at a tape recording consist mainly of which harmonics?
5. Which tape flux should be used for a Dolby A tape recording (the most common noise reduction system) resulting from the Dolby tone-recorded on tape?
6. The level display of a recorded Dolbyton (Dolby A) has to be how much on your ARD stereo modulation meter (quasi peak)?
7. What is the bandwidth  $B$  Hz of a presence filter setting with the center frequency of  $f_0 = 4$  kHz, if the Q factor (quality factor) = 2 is set?
8. Which attack time and which release time do you set at your limiter if you do a voice recording?
9. At what distance in meters to each other, do you set-up your stereo loudspeakers in the control room?
10. Which digital headroom you need to your DAT recorder if you think at overdriving reasons?
11. By what psychoacoustic means you can pass on the higher sound quality of a 18-bit or 20-bit recording to a usual 16-bit CD master?
12. What is the size of the SMPTE time code unit called, which is less than one second, and how many of them go to one second when you create a CD master, if you use for example the PCM 1630 converter?
13. At which voltage is the rated AC voltage of the electrical power (mains) in Germany now set and which frequency do we have?
14. What nominal power (mains) voltage is found in the United States and what frequency do they have there?
15. At which frequency we find the maximum of the amplitude-frequency statistics, if classical music (symphony) is considered?