1. Overmasking occurs when
   a. The masker in the test ear crosses over to the non-test ear
   b. The tone in the test ear crosses over to the non-test ear
   c. The masker in the non-test ear crosses over to the test ear
   d. The tone in the non-test ear crosses over to the test ear

2. An audiologist is trying to measure Jen’s masked threshold at 2000 Hz. When the level of the masker is 30 dB HL, the 25 dB HL 2000 Hz tone is audible. When the masker level is increased to 35 dB HL, the 25 dB HL tone is no longer audible. What is the level of the masker in terms of effective masking (EM) level?
   a. 30 dB EM
   b. 35 dB EM
   c. 25 dB EM
   d. 2000 dB EM

3. According to the Hood Method, the plateau has been reached when:
   a. The pure tone can be heard in the test ear even after the masking noise has been increased by several steps in the non-test ear
   b. The noise can be heard in the test ear even after the pure tone has been increased by several steps in the non-test ear
   c. The pure tone can be heard in the test ear after the masking noise has been decreased by several steps in the non-test ear
   d. The pure tone can be heard in the non-test ear even after the masking noise has been increased by several steps in the test ear

4. Speech detection threshold is the level at which a person can
   a. Just barely detect the presence of pure tones
   b. Just barely detect the presence of speech and identify it as speech
   c. Just barely understand speech
   d. Comfortably recognize speech

Answer the following questions based on the audiogram shown below:

5. Should masked AC thresholds be measured in the right ear for 250, 500, 1000, 2000, and 4000 Hz? (ASSUME THAT THESE THRESHOLDS ARE MEASURED USING HEADPHONES)
Using the formula $AC_{TE} - IA \geq BC_{NTE}$, masked thresholds will have to be measured at 250, 500, and 1000 Hz because the amount of sound that crosses over from the right ear to the left ear is more than the BC threshold of the left ear at those frequencies.

6. Should masked BC thresholds be measured in the right ear for 250, 500, 1000, 2000, and 4000 Hz?

**Masked BC thresholds should be measured at all frequencies except 4000 Hz because the air-bone gap is more than 10 dB at these frequencies.**

7. Should masked AC thresholds be measured in the left ear for 250, 500, 1000, 2000, and 4000 Hz?

**No, using the same formula as in question 5.**

8. Should masked BC thresholds be measured in the left ear for 250, 500, 1000, 2000, and 4000 Hz?

**Masked BC thresholds should be measured at all frequencies except 2000 and 4000 Hz because the air-bone gap is more than 10 dB at these frequencies.**

9. What is the minimum masking level you would use for initial masking of the right ear at 500 Hz? (Hint: use unmasked AC threshold of the non-test ear as the reference to find effective masking level)

**35 dB EM (The unmasked AC threshold of the non-test ear at 500 Hz is 35 dB HL. Therefore, use the amount of masking noise that is just enough to make this tone inaudible and hence raise the threshold to 40 dB HL)**

10. What is the minimum masking level you would use for initial masking of the right ear at 1000 Hz?

**45 dB EM (The unmasked AC threshold of the non-test ear at 1000 Hz is 45 dB HL. Therefore, use the amount of masking noise that is just enough to make this tone inaudible and hence raise the threshold to 50 dB HL)**