

Auditory Psychology

Note: Use only the specified answer sheets.

Question I

Read the following descriptions and answer the specific questions.

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- Question (1) Use 4 sentences to succinctly summarize the research in the text above on the perception of tones alternating in duration or in amplitude. (10 points)
- Question (2) Name two similarities between music and speech and explain each with an example. (20 points)
- Question (3) The author discusses word order in English in the last paragraph. Please finish the sentences regarding word order in Japanese, following the final phrase: "In Japanese, ..." and describe how this connects with the experimental results on the perception of tones alternating in duration. (20 points)

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Question II

Choose three out of the following six questions and answer them. You are allowed to draw figures for explanations; however, the main part of your answer should be logical explanations in English. Specify the number of each question of your choice on the answer sheet. (90 points; 30 points for each question)

- (1) Describe frequency selectivity in the auditory periphery.
- (2) Describe the relation between phons and sones.
- (3) Let's say you want to measure the subjective duration of a sound. Describe two psychophysical methods to do this.
- (4) Can sound localization be performed with one ear? Give arguments for your answer.
- (5) Explain what phonemic restoration is, and why it is important when we study speech perception.
- (6) When two pure tones are played together, their consonance/dissonance changes depending on their frequencies. Explain how such difference in consonance/dissonance appears in terms of auditory mechanisms.

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Question III

Choose six terms from the list of 10 terms below, and explain the meaning of the terms in several lines for each. You are allowed to draw figures for explanations; however, the main part of your answer should be logical explanations in English. Specify the term you choose at the beginning of each answer. (60 points; 10 points for each question)

- (1) outer hair cell
- (2) equal loudness contour
- (3) upward spread of masking
- (4) cochlea
- (5) missing fundamental
- (6) correlation coefficient
- (7) precedence effect
- (8) auditory continuity
- (9) vowel
- (10) categorical perception in speech

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Answer Sheets

Examinee's number

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Question III

The term of your choice:

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The term of your choice:

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Do not write your answer on the back side of the sheet. Any answer on the back side will not be scored.

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Examinee's number

Question III (Continued)

The term of your choice:

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The term of your choice:

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Question III (Continued)

The term of your choice:

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The term of your choice:

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