

2023 Master's Program, Graduate School of Design (General Entrance Examination) Achievement Test
Question and Answer Sheets

Examination Subject Media Science

Examinee's number

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Question 1 must be answered by all examinees. For Questions 2, 3, and 4, select and answer two questions from among these three.

(Compulsory) Question 1: Answer the following questions.

1-1: Select four geometric illusions, illustrate each of them with their names, and explain what kind of illusions they are. (20 points)

1-2: Describe the methods to inhibitvection as many as possible. (20 points)

1-3: Explain the difference between radiometric quantities and photometric quantities. In addition, give as many examples of radiometric quantities and corresponding photometric quantities as possible, and explain them including their units. (20 points)



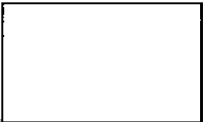
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(Elective) Question 3: Describe your opinion on why vection is interesting. (70 points)



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(Elective) Question 4: A color system, which is a method of representing colors, is needed to deal with color quantitatively. Answer the following questions about color systems. (70 points)

- 1) Explain the basic idea of color notation of the Munsell color system.
- 2) Explain the basic idea of color notation of the CIE 1931 XYZ color system.
- 3) The CIE 1931 XYZ color system is inadequate to indicate color differences. Give two reasons and explain why it is inadequate.
- 4) CIE (Commission internationale de l'éclairage : International Commission on Illumination) defined two new color space systems to indicate color differences in 1976. Answer the names of these color space systems, and, for each, explain the ideas based on which these color space systems were designed.