

2026 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(1-1, 1-2, and 1-3) must be answered by all examinees. For Questions 2, 3, and 4, select two questions from these three and answer them.

(Compulsory) Question 1: Answer the following three questions.

1-1. Explain the significance of studying visual illusions. (20 points)

1-2. Explain "what vection is" in as much detail as possible. You may use diagrams if necessary to support your explanation. (20 points)

1-3. Explain "dark adaptation curve" in as much detail as possible. You may use diagrams if necessary to support your explanation. (20 points)



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For questions 2, 3, and 4, **select two questions** and answer them. If you answer all three questions, the two with the lowest scores will be used.

(Elective) Question 2: Answer the three questions below. (70 points)

- Explain the Thatcher illusion (or Thompson effect) and the hollow mask illusion (or hollow face illusion) in as much detail as possible, using diagrams. (20 points)

- List two types of eye movements and explain them in as much detail as possible using diagrams. (20 points)

- Explain random-dot stereograms in as much detail as possible using diagrams. (30 points)



Do not write on the back side of the answer sheet, or your answers will not be marked.

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(Elective) Question 3: Explain in as much detail as possible examples of how sensory and perceptual psychology is used in the real social world (for example, jobs that make use of sensory and perceptual psychology) (70 points).



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(Elective) Question 4:

1) "Color order system" is a method for quantitatively denoting colors.

• Explain in as much detail as possible what "the color order system" is. (15 points)

• Explain in as much detail as possible the NCS (Natural Color System), which is one of the color order systems. You may use diagrams if necessary to support your explanation. (20 points)

2) In the CIE (Commission internationale de l'éclairage) 1931 RGB and CIE 1931 XYZ color systems, colors are represented using RGB or XYZ tristimulus values. To obtain these tristimulus values, color matching functions are used. Explain color matching functions in as much detail as possible. You may use diagrams if necessary to support your explanation. (15 points)

3) The CIE 1931 RGB color system had two major problems that limited its practical use. To address these problems, it was transformed into the CIE 1931 XYZ color system. Explain in detail what these two major problems were in the CIE 1931 RGB color system, and how each of them was resolved in the CIE 1931 XYZ color system in as much detail as possible. You may use diagrams if necessary to support your explanation. (20 points)

