

Examination Subject
Media Science

Examinee's number

Question 1 (Compulsory questions)

• Question 1-1. Illustrate four types of geometrical illusions and briefly explain how each illusion appears. (20 points)

• Question 1-3. Explain “luminance” as a lighting vocabulary and the “unit: cd/m^2 (unit of measurement)” of luminance in as much detail as possible. You may use diagrams if necessary. (20 points)

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Question 2 (Elective question)

Choose two from the following three questions [Questions 2-A, 2-B, and 2-C] and answer.

Question 2-A. Answer the three questions listed below. (70 points)

- Give two examples of the illusions of visual object motions and explain them in as much detail as possible. Diagrams may be used.

- Give examples of subjective contours and describe them in as much detail as possible. Diagrams may be used.

- Explain the blind spot in as much detail as possible. Diagrams may be used.

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Question 2-B.

If the subjective strength of vection is obtained using the magnitude estimation method, which level is the subjective value considered to be at among Stevens' four levels of measurement? Explain your ideas as clearly as possible, giving examples of statistical methods used in previous research on vection. (70 points)

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Question 2-C.

- 1) Visual colorimetry is a method of measuring color using the Munsell color chart. Explain the method of visual colorimetry. Furthermore, list three points to be considered when measuring color and explain why. (40 points)
- 2) Given a display that reproduces colors by additive color mixing of the three primary colors of RGB, calculate the xy chromaticity and luminance of the reproduced color if the CIE 1931 xy chromaticities and luminances of R, G, and B are as shown in the table below, respectively. Round to the fourth decimal place. (30 points)

Primary	CIE 1931 chromaticity		Luminance (cd/m²)
	x	y	
R	0.64	0.33	16.5
G	0.30	0.60	30.0
B	0.15	0.06	12.0

