

Instruction: Mechano-Informatics (Essay)

Answers should be written either in Japanese or English.

- 1) Do not open this problem booklet until the start of the examination is announced.
- 2) Two problems are provided. Answer both of them.
- 3) If you find missing, misplaced, and/or unclearly printed pages in the problem booklet, notify the examiner.
- 4) Two answer sheets are provided. Check the number of them, and if you find excess or deficiency, notify the examiner. You must use a separate sheet for each problem. When you run short of space to write your answer on the front side of the answer sheet, you may use the back side by clearly stating so in the front side.
- 5) In the designated blanks at the top of each answer sheet, write examination name (科目名) “Mechano-Informatics (Essay)”, “Master” or “Doctor” (修士・博士), your applicant number (受験番号), and the problem number (問題番号). Omission in filling up these blanks may void your test score. Filling in the number of sheets (枚/枚中) is unnecessary.
- 6) An answer sheet is regarded as invalid if you write marks and/or symbols unrelated to the answer.
- 7) Submit both answer sheets even if they are blank.
- 8) Use the blank pages in the problem booklet for your draft.
- 9) Fill in your applicant number on the blank below, and submit this booklet. Also submit the Japanese booklet with your applicant number in the corresponding blank.

Applicant number:

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Problem 1

In the near future, robots are expected to offer various support in our daily life. However, to live together with the robots, there are some issues that we should solve. Answer the following questions.

- P. 1. The support we receive from the robots must be safe and secure. Discuss such support by the robots from the view point of technology.

- P. 2. Our life might always be seen by the robots. Discuss the information acquisition by the robots from the view point of personal privacy.

- P. 3. There is some support we expect the robots to offer, and some we don't. Discuss how far the robots may support us from the view point of human dignity.

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Problem 2

Answer the following questions about the research you wish to pursue in the doctor course.

- P. 1. State the research title that appropriately expresses the research.
- P. 2. State the goal and outline of the research, and describe its significance from several view points.
- P. 3. Describe the methods to carry out the research with a practical plan.
- P. 4. Describe your career plan and the meaning of the research in the doctor course therein.

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