

Instruction: Mechano-Informatics (Essay)

Date : H24 (2012), February 13, 9:30 – 11:10

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 “Mechano-Informatics (Essay)”, your applicant number, and the problem number. Omission in filling up these blanks may void your test score.
- 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 the blank below with your applicant number, 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**

The science and technology have been progressed by subdividing a research field. On the other hand, in order to make a rapid promotion of the science and technology, it is also said that interdisciplinary collaboration and introduction of knowledge and methodology in different fields are necessary. Answer the following questions.

- P. 1. Give one example of the science or the technology that interdisciplinary collaborative research brought, and describe it.
  
- P. 2. What kind of ability is required to a person who can properly promote the interdisciplinary collaborative research? Describe your opinion.

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## **Problem 2**

Answer the following questions about the research you hope to pursue in the doctoral program.

- P. 1. State the research theme.
  
- P. 2. State the purpose and outline of your research, and describe the significance of the research from a few different points of view.
  
- P. 3. Describe the methods and practical research plan.
  
- P. 4. Describe your career plan and the meaning of the research in the doctoral program therein.

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