THE OPEN UNIVERSITY OF SRI LANKA
FACULTY OF HEALTH SCIENCES
DEPARTMENT OF MEDICAL LABORATORY SCIENCES
ACADEMIC YEAR 2018/2019 – SEMSETER II

BACHELOR OF MEDICAL LABORATORY SCIENCE HONOURS
MDU5211 – HEALTH CARE INFORMATICS
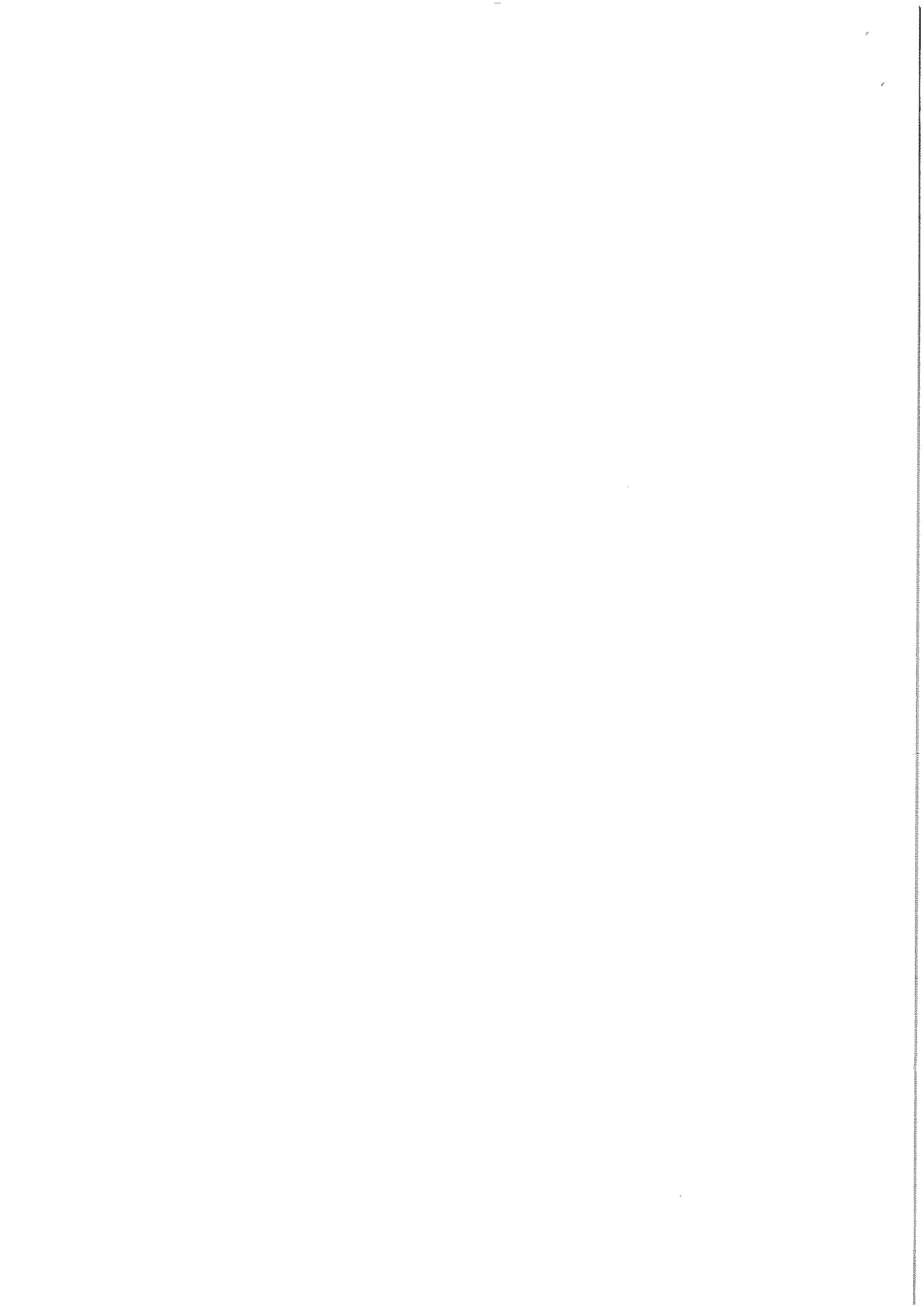**NO BOOK TEST 1**   **DURATION: ONE HOUR**

DATE: 15th JULY 2019   TIME: 2.00 PM – 3.00 PM

REGISTRATION NO: …………………………………..

IMPORTANT INSTRUCTIONS/ INFORMATIONS TO CANDIDATES

- This question paper consists of **09 pages** with **10 Multiple Choice Questions (Part A)**, **02 Structured Essay Questions (Part B) and 01 Essay Question (Part C).**

- Write your Registration Number in the space provided.

- Answer **ALL** questions.

- **Multiple Choice Questions (Part A):** Indicate answers in the answer sheet provided by placing a cross (X) in **INK** in the relevant cage. (answers in pencil will **NOT** be marked)

- **Structured Essay Questions (Part B):** Write answers within the space provided.

- **Essay Question (Part C):** Answer the question on the provided papers.

- Do not remove any page/part of this question paper from the examination hall.

- Mobile phones and any other electronic equipment are **NOT** allowed. Leave them outside.

Part B: Structured Essay Questions (80 marks)

Q1.

1.1 List **FOUR (04)** features of health information.   (8 marks)

    i.   ....

    ii.   ....

    iii.   ....

    iv.   ....

1.2 Outline the Person-Based Information vs Aggregate Information with giving **TWO (02)** examples from laboratory information.   (12marks)

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1.3 List **FOUR (04)** facets of data quality (8 Marks)

i. ....

ii. ....

iii. ....

iv. ....

1.4 Write **THREE (03) USAGES** of "statistical reports of medical laboratories" giving **ONE (01)** example each. (12 marks)

i. ....

....

....

ii. ....

....

....

iii. ....

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....

Total – 40 Marks

Q2.

A private hospital is in the process of introducing an app linked to a wearable device to help their clients to record clinical parameters like heart rate, Hb saturation and etc. The app is supposed to provide information regarding the current health status of the clients to make informed health decisions. It will also provide the public the opportunity to obtain their lab reports from the hospital. Furthermore the app will be used to send promotional activities of the hospital. The management is looking in to the ways to diffuse the innovation to the public.

2.1 State **ONE (01)** theory that can be used to understand this scenario of technology diffusion.

(4 marks)

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2.2 List the types of technology adopters among the public.   (10 marks)

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2.3 List **FOUR (04)** methods that can be used to improve the use of the app among the technology adopters mentioned in 2.2.   (8 marks)

i. ....

ii. ....

iii. ....

iv. ....

2.4 List **THREE (03)** advantages linking the mobile app to the LIMS in the hospital.(12 marks)

i. ....

ii. ....

iii. ....

2.5 List **THREE (03)** functions you as Medical Laboratory Technologist (MLTs) expected to carry out to provide lab information to the public using the mobile app.   (6 marks)

i.   ....

ii.   ....

iii. ....

Total – 40 Marks

Part C: Essay Question (10 marks)

1. Discuss in brief the advantages and disadvantages to the stakeholders when using digital Laboratory Information Management System (LIMS) in a tertiary care hospital in Sri Lanka.   (10 marks)

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MDU5211 – HEALTH CARE INFORMATICS

NO BOOK TEST 1

REGISTRATION NO: ....

ANSWER SHEET FOR PART A

1. | a | b | c | d |

2. | a | b | c | d |

3. | a | b | c | d |

4. | a | b | c | d |

5. | a | b | c | d |

6. | a | b | c | d |

7. | a | b | c | d |

8. | a | b | c | d |

9. | a | b | c | d |

10. | a | b | c | d |
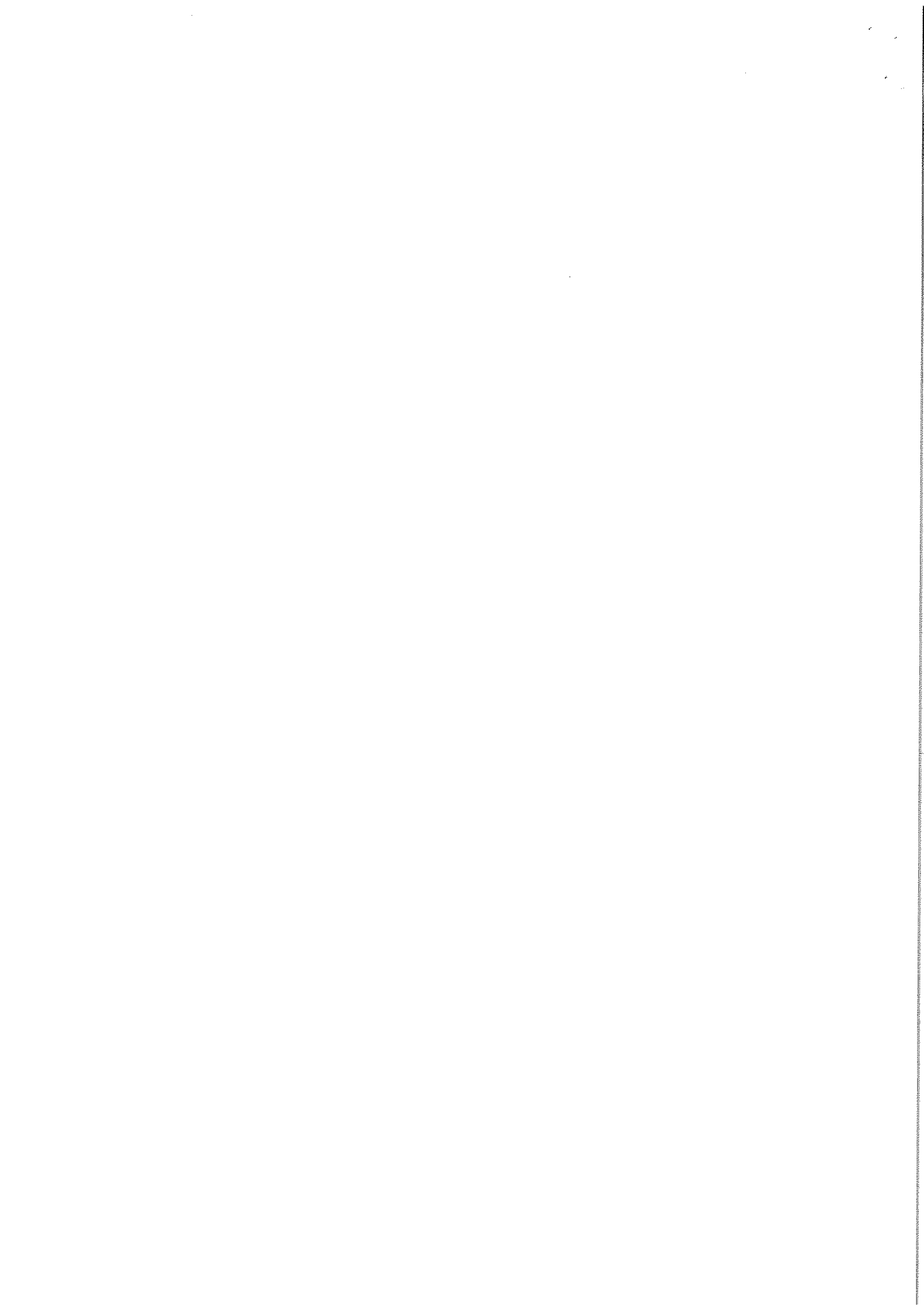
Registration No..............................

Name: ....

Address: ....

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