

**NATIONAL UNIVERSITY OF SCIENCE AND TECHNOLOGY**

**FACULTY OF COMMUNICATION AND INFORMATION SCIENCE**

**DEPARTMENT OF RECORDS AND ARCHIVES MANAGEMENT**

**ARCHIVAL INFORMATICS**

**IIM 2204**

**Main Examination Paper**

**February 2025**

This examination paper consists of 3 pages.

**Time Allowed: 3 hours**

**Total Marks: 100**

**Examiner's Name: Mr A. Ndlovu**

**INSTRUCTIONS**

1. Answer any **four (4)** questions.
2. Each question carries **25 marks**.

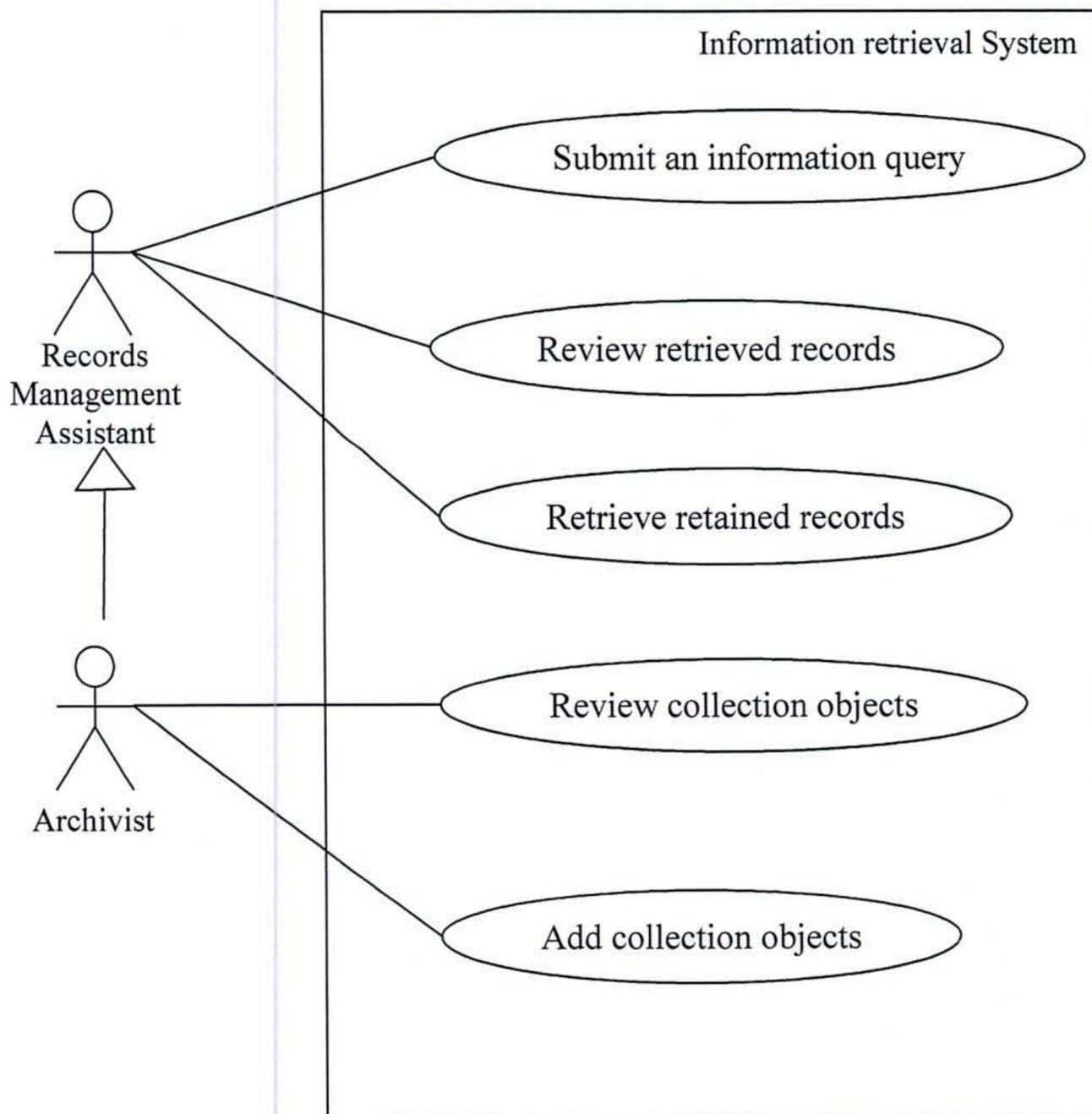
**MARK ALLOCATION**

<b>QUESTION</b>	<b>MARKS</b>
1.	25
2.	25
3.	25
4.	25
5.	25
6.	25

1. a) What is archival informatics? [4 marks]
- b) Identify and explain any three (3) technologies driving archival informatics. [9 marks]
- c) Explain any three (3) branches of archival informatics. [12 marks]

**[Total 25 marks]**

2. a) In the context of use case diagrams what is a black box perspective? [5 marks]
- b) Explain the following concepts as used in use case diagrams:
  - i. Value proposal [3 marks]
  - ii. Measurable value [3 marks]
- c) Explain the use case diagram below. [14 marks]



**[Total 25 marks]**

3. a) Using illustrations, explain the following concepts:
- i. An inheritance relationship. [5 marks]
  - ii. A communication association. [5 marks]
  - iii. A whole or a part of relationship. [5 marks]
- b) Using UML, illustrate a class diagram of your choice. [5 marks]
- c) Explain the class diagram illustrated in 3.b. [5 marks]
- [Total 25 Marks]**
4. a) In the context of modelling software and hardware objects, explain the following concepts:
- i. Deployment diagram [5 marks]
  - ii. Component diagram [5 marks]
  - iii. Implementation diagram [5 marks]
- b) In the context of component diagrams, explain the following concepts.
- i. The Modularity Principle [5 marks]
  - ii. Encapsulation [5 marks]
- [Total 25 Marks]**
5. a) Identify and explain any five (5) characteristics of Intelligent Archives (IAs). [15 marks]
- b) What new skills are required of the archivist in building an Intelligent Archive (IA)? [10 marks]
- [Total 25 Marks]**
6. a) What is system design? [5 marks]
- b) Do archivists have a role in systems design? Discuss. [20 marks]
- [Total 25 Marks]**

**END OF PAPER**