NATIONAL UNIVERSITY OF SCIENCE AND TECHNOLOGY

FACULTY OF COMMUNICATION AND INFORMATION SCIENCE

DEPARTMENT OF RECORDS AND ARCHIVES MANAGEMENT

ADVANCED INFORMATION AND COMMUNICATION TECHNOLOGIES IN RECORDS AND ARCHIVES MANAGEMENT

IRA 6202

Main Examination Paper
November 2024

This examination paper consists of 2 pages.

Time Allowed : **3 hours**

Total Marks : **100**

Examiner's Name : **Mr D. T. Sigauke**

INSTRUCTIONS

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

MARK ALLOCATION

QUESTION	MARKS
1.	25
2.	25
3.	25
4.	25
5.	25
6.	25

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1. Discuss the notion from pessimistic communities that claim, any attempts at preserving digital information resources from obsolete platforms, proprietary business systems and defunct organisations is a futile and thankless endeavour. **[25 marks]**

2. a) Using specific software as examples, differentiate between the following information systems:
   i. electronic document management system (EDMS) **[5 marks]**
   ii. electronic records management system (ERMS) **[5 marks]**
   iii. enterprise content management system (ECMS) **[5 marks]**

   b) With reference to a specific enterprise resource planning system (ERPS), demonstrate its capabilities to support the business functions of an enterprise and more importantly, the archiving of electronic records and information. **[10 marks]**

   [Total 25 marks]

3. Evaluate the updated Information Systems Success model proposed by Delone and Maclean (2016) and determine the extent to which it can be used to improve the adoption of novel technologies to support information management in an organisation. **[25 marks]**

4. a) Distinguish digital curation from digital preservation. **[6 marks]**

   b) Explain any four (4) digital preservation strategies that can be implemented to ensure the long-term access to digital information resources. **[12 marks]**

   c) Use a clearly labelled diagram to explain the Open Archival Information System (OAIS). **[7 marks]**

   [Total 25 marks]

5. a) Define a large language model (LLM). **[5 marks]**

   b) Explain any five (5) problems that arise when deploying LLMs on archival collections which are used as training data. **[15 marks]**

   c) List any five (5) strategies being implemented by developers of LLMs to mitigate against the concerning problems of LLMs in archival contexts. **[5 marks]**

   [Total 25 marks]

6. Discuss any four (4) topical issues that have arisen for archivists and information managers in their intricate effort to capture and preserve social media content as web archives. **[25 marks]**

END OF PAPER

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