MANICALAND STATE UNIVERSITY OF APPLIED SCIENCES

FACULTY OF ENGINEERING, APPLIED SCIENCES AND TECHNOLOGY

DEPARTMENT: COMPUTER SCIENCE AND INFORMATION SYSTEMS

MODULE: MANAGEMENT INFORMATION SYSTEMS

CODE: INSY212

SESSIONAL EXAMINATIONS
APRIL 2024

DURATION: 3 HOURS

EXAMINER: MR N. RANGANAI

INSTRUCTIONS

1. *Answer **Any 4** questions*

2. *Each question carries 25 marks*

3. *Total marks 100*

Additional material(s): *None*

Question 1

a) Explain the concept of digital transformation and explain its significance for organizations. **[5marks]**

b) Discuss how digital transformation can impact business processes, customer experiences, and competitive advantage. Provide examples of organizations that have successfully undergone digital transformation. **[10marks]**

c) Discuss the key challenges and risks that organizations may encounter during the digital transformation journey. **[5marks]**

d) Explain strategies and best practices that organizations can employ to address these challenges and mitigate risks. **[5marks]**

Question 2

a) Explain the concept of business intelligence (BI) and its role in supporting data-driven decision-making. **[5marks]**

b) Discuss the main components and processes involved in a typical BI system. **[5marks]**

c) Using a real-world example, describe how a specific organization has utilized business intelligence to gain insights, improve decision-making, and achieve competitive advantage. **[5marks]**

d) Analyze the benefits and challenges encountered during the implementation and use of the BI system. **[10marks]**

Question 3

a) Discuss the importance of information security in organizations and the key principles of a comprehensive information security framework. **[5marks]**

b) Explain the concept of defense-in-depth and its relevance to information

security. **[5marks]**

c) Examine major types of cybersecurity threats that organizations face, such as malware, social engineering, and insider threats. **[10marks]**

d) Discuss strategies and best practices that organizations can adopt to prevent and mitigate these threats. **[5marks]**

Question 4

a) Define the concept of cloud computing and discuss its benefits and challenges for organizations. **[4marks]**

b) Explain the different cloud deployment models (public, private and hybrid). **[6marks]**

c) Analyze a specific organization's decision to adopt cloud computing. **[6marks]**

d) Discuss the factors that influenced their decision, the benefits they expected to achieve, and the challenges they may encounter during the migration and management of cloud-based services. **[9marks]**

Question 5

a) Explain the concept of enterprise resource planning (ERP) systems and their role in integrating organizational processes and functions. **[5marks]**

b) Discuss the benefits and challenges of implementing ERP systems in organizations. **[5marks]**

c) Select a specific industry (e.g., manufacturing, healthcare, retail) and discuss the potential advantages and disadvantages of implementing an ERP system within that industry. Provide examples and analyze the impact of ERP systems on organizational efficiency, coordination, and decision-making. **[15marks]**

END OF EXAMINATION