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University Examinations 2023/2024

THIRD YEAR SECOND SEMESTER EXAMINATION FOR THE DEGREE OF BACHELOR
OF INFORMATION TECHNOLOGY AND BACHELOR OF BUSINESS INFORMATION
TECHNOLOGY

CIB 3351: ENTERPRISE SYSTEMS DEVELOPMENT

DATE: APRIL 2024

TIME: 2 HOURS

INSTRUCTIONS: Answer question *one* and any other *two* questions

QUESTION ONE (30 MARKS)

- a) Discuss the strategies for optimizing system performance, provide examples of how performance optimization contributes to a responsive and efficient system. (4 Marks)
 - b) Define enterprise system development? Briefly highlight its importance in modern business environments. (5 Marks)
 - c) Highlight the benefits of enterprise system development (ESD) principles in the development process. (4 Marks)
 - d) Differentiate the types of system requirements in ESD? (4 Marks)
 - e) Briefly highlight the difference between SCM, BI and I-IRIS? (3 Marks)
 - f) Outline the challenges in requirements specification? (4 Marks)
 - g) Using relevant examples, define business process modelling. (4 Marks)
 - h) Discuss any two reasons for ERP consideration in the enterprise (2 Marks)
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MUST is ISO 9001:2015 and



ISO/IEC 27001:2013 CERTIFIED

QUESTION TWO: (20 MARKS)

- a) Identify two aspects of UML in enterprise system development. (2 Marks)
- b) Define SCOR? Identify its five major processes. (6 Marks)
- c) Outline the roles of design artifacts in ESD projects. (6 Marks)
- d) Identify the security measures to be enforced during enterprise system implementation to ensure interoperability (6 Marks)

QUESTION THREE: (20 MARKS)

- a) Identify and define with examples, three types of integration in enterprise systems. (6 Marks)
- b) Identify two supply chain models. Which is better? (4 Marks)
- c) Highlight the two major challenges with corresponding solutions experienced during integration of Enterprise Systems in a digital firm (4 Marks)
- d) Describe Application Programming Interface integration, Middleware and data synchronization as applied in enterprise system integration (6 Marks)

QUESTION FOUR: (20 MARKS)

- a) Highlight your understanding of security in ESD implementation, and briefly define three security measures applicable with a relevant example. (7 Marks)
- b) Elucidate the challenges experienced during ESD implementation, outlining the strategies to overcome those challenges. (5 Marks)
- c) Discuss the importance of testing in identifying and resolving issues before and after implementation. (4 marks)
- d) Highlight the various types of testing, including unit testing, integration testing, and user acceptance testing. (4 Marks)



QUESTION 5: (20 MARKS)

- a) Describe the four strategies organizations must use to meet the challenges posed by the new information technology infrastructure. (4 Marks)
- b) Explain how adhering to quality assurance practices ensures a reliable and high-performing system. (6 Marks)
- c) Explore quality assurance methodologies that ensure successful ESD implementation. (3 Marks)
- d) Discuss the importance of designing systems that can scale to accommodate growing user demands. (7 Marks)

