**MARKING SCHEME**

1. **Introduction: (10 Marks)**

* Outline the goals and objectives of both systems in the case study. (4 Marks)
* Describe the interactions that occur within System 1. (3 Marks)
* Describe the interactions that occur in System 2. (3 Marks)
* Describe the interactions between the two systems. (3 Marks)

1. **Data Integrity: (16 Marks)**

* (System 1) Describe the impact of reduced data integrity on System 1 and how it can happen (accidental, event-based or intentional). (4 Marks)
* Discuss the data management practices that System 1 should have in place to ensure data integrity. (4 Marks)
* (System 2) Describe the impact of reduced data integrity of System 2 and how it can happen (accidental, event-based or intentional). (4 Marks)
* Discuss the data management practices that System 2 should have in place to ensure data integrity. (4 Marks)

1. **Legislation: (12 Marks)**

* Identify the legislation that relates to this case study (both systems). (4 Marks)
* Describe how each legislation is relevant to the case study. (4 Marks)
* Describe the obligations of the system managers. (4 Marks)

1. **Physical & Logical Controls: (10 Marks)**

* Identify the physical and logical control required to ensure data integrity within this case study. (6 Marks)
* Describe how the interaction between the two systems requires added security. (4 Marks)

1. **Tracing Transaction: (6 Marks)**

* List (1 Mark each) and describe (2 Marks each) the tools and techniques that can trace transaction in both systems

1. **Evaluation: (8 Marks)**

* Describe methods that could be used to critically evaluate the extent that the system objectives are met. (2 Marks per method and 2 Marks for how it can evaluate the system.)

1. **Network Diagram: (8 Marks)**

* Create a network diagram of the interaction between these two systems. (3 Marks for each of the two systems and 2 Marks for correctly connecting them)

1. **Correct Use of Terminology (10 Marks)**
2. **Correctly identifying all conflicts (10 Marks)**
3. **Explanations are clear and thorough (5 Marks)**
4. **The document is of a formal format fit for purpose (5 Marks)**

|  | Very Low | Low | Medium | High | Very High |
| --- | --- | --- | --- | --- | --- |
| **Unit 4 Outcome 2**  **Analyse and explain the dependencies between two information systems and evaluate the controls in place in one information system to protect the integrity of its source data** | Very limited technical descriptions of the networked environment and interactions generated by information systems | Some technical descriptions of the networked environment and the interactions generated by information systems | Some technically correct terminology is used to describe the networked environment and the interactions generated by information systems | Mainly technically correct terminology is used to describe the networked environment and the interactions generated by information systems. | Technically correct terminology is used to describe the networked environment and describe the interactions generated by information systems. |
| Very limited techniques to identify causes of conflict and little description of the organisation’s data management practices. | Some appropriate techniques to identify causes of conflict and some description of the organisation’s data management practices. | Appropriate techniques to identify causes of conflict and some evaluation of the organisation’s data management practices | Most techniques to identify causes of conflict and clear evaluation of the organisation’s data management practices | All techniques to identify causes of conflict and thorough evaluation of the organisation’s data management practices |
| Limited understanding and application of relevant legislation demonstrated in data management practices | Some understanding and application of relevant legislation demonstrated in data management practices | Adequate understanding and application of relevant legislation demonstrated in data management practices | Clear understanding and application of relevant legislation demonstrated in data management practices | .  Insightful understanding and application of relevant legislation demonstrated in data management practices |
| Limited description of data integrity characteristics and a very basic description of the impact of diminished data integrity | Some description of data integrity characteristics and some description of the impact of diminished data integrity | Appropriate description of data integrity characteristics and a satisfactory description of the impact of diminished data integrity | Detailed description of data integrity characteristics and a well-developed description of the impact of diminished data integrity | Comprehensive description of data integrity characteristics and a very detailed description of the impact of diminished data integrity |
| Very little description of ways organisations secure data and information and limited identification of the extent to which information system objectives are met | Some explanation of ways organisations secure data and information and a basic evaluation of the extent to which information system objectives are met | Satisfactory explanation of ways organisations secure data and information and adequate evaluation of the extent to which information system objectives are met | Clear explanation of ways organisations secure data and information and detailed evaluation of the extent to which information system objectives are met | Thorough explanation of ways organisations secure data and information and critical evaluation of the extent to which information system objectives are met |