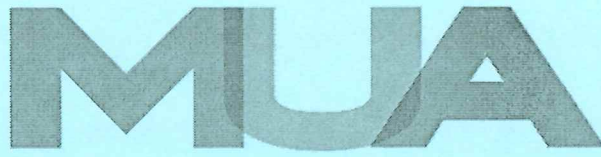


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**DIPLOMA UNIVERSITY EXAMINATIONS**  
**SCHOOL OF MANAGEMENT AND LEADERSHIP**  
**DIPLOMA IN BUSINESS INFORMATION TECHNOLOGY**

**DBT 201 : INTRODUCTION TO BUSINESS INFORMATION SYSTEMS**

**DATE: 28<sup>TH</sup> MARCH 2022**

**DURATION: 2 HOURS**

**MAXIMUM MARKS: 70**

**INSTRUCTIONS:**

1. Write your registration number on the answer booklet.
2. **DO NOT** write on this question paper.
3. This paper contains **SIX (6)** questions.
4. Question **ONE** is compulsory.
5. Answer any other **FOUR** questions.
6. Question **ONE** carries **30 MARKS** and the rest carry **10 MARKS** each.
7. **Write all your answers in the Examination answer booklet provided.**

**QUESTION ONE**

**Read the case study below carefully and answer the questions that follow:**

The Covid-19 pandemic has had a devastating effect in the world. Many businesses have been adversely affected. The year is 2021 and the vaccine against Covid-19 has been developed. It has reached many countries and the business environment is recovering. Due to your knowledge in business information systems, you have been hired as the assistant to the chief executive officer of a multinational company. Your main task is to help the CEO establish a unit that will handle information systems needs and opportunities for the company. The unit should be designed in such a way that it can shield the company against adverse effects of future pandemics that the company may face. Apply the concepts learnt during the course to ensure the CEO's goal is achieved by answering the questions below.

**Required:**

- a) Discuss any two factors that predisposes the company's information systems to vulnerabilities. **(4 Marks)**
- b) Describe the components of an information system that the unit will need to establish. **(6 Marks)**
- c) Explain why you expect there will be a growing interdependence between the company's information systems and its business capabilities. **(5 Marks)**
- d) The CEO's goals will be achieved by people working with computers. Relate any three qualities of humans and computers that contributes to synergy between them. **(6 Marks)**
- e) Distinguish between data and information. Identify by giving examples, the type of data and information that the department will use to advice senior management. **(5 Marks)**
- f) The business information value chain is grouped into three categories. List these categories. What is the end result of the business information value chain? **(4 Marks)**

**QUESTION TWO**

- a) Discuss three information systems roles. (6 Marks)
- b) Discuss how information systems impacts the business environment. (4 Marks)

**QUESTION THREE**

- a) Distinguish between time shifting and space shifting. (2 Marks)
- b) Discuss the four activities of an information system. (8 Marks)

**QUESTION FOUR**

- a) Information systems assist managers in the development of new products and services. Discuss four ways how this is achieved. (4 Marks)
- b) Justify the need to create an information system. (3 Marks)
- c) List three characteristics of a digital firm. (3 Marks)

**QUESTION FIVE**

- a) Discuss any two characteristics of useful information. (4 Marks)
- b) Describe any three conditions for a patent to be granted. (6 Marks)

**QUESTION SIX**

- a) Define the following terms.
- i. Internet of Things (2 Marks)
  - ii. Operational Intelligence (2 Marks)
  - iii. Ethics (2 Marks)
- b) Distinguish between information systems security and information systems control. (4 Marks)

