**RICHFIELD**

**FACULTY OF INFORMATION TECHNOLOGY**

**INFORMATION SYSTEMS 622**

**4TH SEMESTER ASSIGNMENT**

**Name & Surname: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ ICAS No: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Qualification: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Semester: \_\_\_\_\_ Module Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Date Submitted: \_\_\_\_\_\_\_\_\_\_\_**

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| --- | --- | --- | --- |
| **ASSESSMENT CRITERIA** | **MARK**  **ALLOCATION** | **EXAMINER MARKS** | **MODERATOR MARKS** |
| **MARKS FOR CONTEN** | | |  |
| **QUESTION ONE** | **30** |  |  |
| **QUESTION TWO** | **30** |  |  |
| **QUESTION THREE** | **30** |  |  |
|  |  |  |  |
| **TOTAL MARKS** | **90** |  |  |
| **MARKS FOR TECHNICAL AS PECTS** | | |  |
| **1. TABLE OF CONTENTS** | **2** |  |  |
| **2. LAYOUT AND SPELLING** | **5** |  |  |
| **3. REFERENCE** | **3** |  |  |
| **TOTAL MARKS** | **10** |  |  |
| **TOTAL MARKS FOR ASSIGNMENT** | **100** |  |  |
| **Examiner’s Comments:** | | |  |
|  | | |  |
|  | | |  |
| **Moderator’s Comments:** | | |  |
|  | | |  |

**QUESTIONS [90 MARKS]**

**QUESTIONS ONE [30 MARKS]**

**When Stock Becomes a Liability**

South African company New Era Solutions is helping its clients to reduce stock. Working with their partners Epicor Software Corporation, New Era offers Warehouse management system to control the movement and storage of materials in a warehouse and process goods coming into the warehouse and leaving it. Warehouse management software, part of an ERP system, allows a company to manage its inventory and minimize so called ‘dead stock’. A manufacturing company buys raw materials and turns them into finished products. Each of these (materials and products) is stock. Stock includes the

materials coming in, products at all stages of being finished, and the final products ready to be shipped. Stock is a major company asset and is usually the main source of a company’s revenue. However, there are times when stock can become a liability: stock can generate revenue but it is also a cost. It costs money to keep it, as the warehouse needs security guards, electricity, there may be rent to pay, or payments on a building loan.

**Questions**

1. **List some of the costs associated with running a warehouse? (10)**
2. **How does warehouse management software help reduce dead stock? (10)**
3. **How could a company decide at what point stock becomes dead stock? (5)**
4. **How can companies deal with the disruption that implementing an ERP creates? (5)**

**Read**

**Principles of Business Information Systems 3rd Edition, Ralph Stair, George**

**Reynolds and Thomas Chesney Chapter 7 Page Number 262**

**QUESTION TWO [30 MARKS]**

**Smart Meters Capture Big Data for Energy Decisions**

Governments all over the world are putting in place laws and regulations to govern the Installation of smart meters that send regular information about utility usage back to energy providers. This information could come in from every household as often as once every thirty minutes. Germany for instance meter by 2020 to record electricity use in the UK, the Department of Energy and Climate Change has plans I place for the installation of 53 million electricity smart meters in homes and businesses by 2020. European directive 2009/72/EG lays out the common rules for all EU states regarding the internal market in electricity and requires ‘smart grids, which should be built in a way that encourages decentralized generation and energy efficiency’. Similar plans are afoot for metering gas and water.

1. **Should citizens have a choice in whether a smart meter is installed in their homes?** **(10)**
2. **Why was testing so important for Yedas?**  **(10)**
3. **How will smart meters make electricity production more efficient?** **(5)**
4. **What are some of the privacy concerns with smart meters?** **(5)**

**Read**

**Principles of Business Information Systems 3rd Edition, Ralph Stair, George**

**Reynolds and Thomas Chesney Chapter 7 Page Number 262**

**QUESTIONS THREE [30 MARKS]**

**360 Video Makes Virtual Reality Accessible**

There is a lot of jargon in the IT industry and most of it is not ‘owned’ by anyone. So when someone starts to redefine a term, who can say if they are right or wrong? In addition, many technologies naturally evolve into something that sometimes doesn’t look much like the original idea. So it’s with virtual reality. The original definition was a technology that fully immerses a user in an artificial, 3d world that is completely generated by computer. This immersion is typically created by wearing a headset that send images to the users eyes and adjusts these depending on the angle of the users head. But what if the user was viewing the 3D computer generated world on an ordinary 2D monitor – would that count as VR?

1. **What do you think is holding back full VR? (10)**
2. **Could Google Cardboard help bring VR to the general public? (10)**
3. **What applications can you think of for 360 video? (5)**
4. **Why does Google allow employees to spend time on personal projects? (5)**

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**Reynolds and Thomas Chesney Chapter 7 Page Number 262**

**TOTAL: 100 MARKS**