



ZIMBABWE EZEKIEL GUTI UNIVERSITY

FACULTY OF LAW, BUSINESS INTELLIGENCE AND ECONOMICS

DEPARTMENT OF ECONOMICS, MARKETING AND ENTREPRENEURSHIP

EXAMINATION PAPER

COURSE CODE : CPS 405

COURSE TITLE : Material Planning and Production Control 1

SPECIAL REQUIREMENTS : NO SPECIAL REQUIREMENTS

DURATION : 3 Hours

LEVEL : 4:1

DATE :

17 APR 2023

INSTRUCTIONS TO CANDIDATES:

1. No cell phones are allowed in the examination venue.
2. **QUESTION ONE IS COMPULSORY**
3. Answer **QUESTION ONE AND ANY THREE (3)** questions.
4. Begin each question on a new page.
5. The number of marks for each question or part question is shown in brackets []
6. Use of practical examples where necessary is encouraged

CASE STUDY

Dell as a manufacturer of computers and peripheral devices was looking to improve its profit by reducing inventory and the associated carrying costs, while improving customer service. The products required to support different customer channels varied from expensive long-lead time engineered systems to relatively low-value standalone units that supported personal computers. The company needed to completely revamp its inventory, manufacturing and product support policies, procedures and practices to reflect the dramatic and fast changes to its product line.

QUESTION ONE

- a. From the case study above, explain five major benefits experienced by Dell after the disposal of obsolete inventory. **(10 Marks)**
- b. Examine any five ways in which the procurement team reduce the inventory carrying costs. **(15 Marks)**

QUESTION TWO

- a. Discuss five importance of Material Planning and Production Control. **(15 Marks)**
- b. Critically examine five factors that affect the efficiency of Material Planning and Production Control processes. **(15 Marks)**

QUESTION THREE

Explain, using examples, five different types of maintenance management systems. **(25 Marks)**

QUESTION FOUR

Explain the following terms as they are used in Material Planning and Production Control;

- i. Routing **(5 Marks)**

- ii. Dispatching (5 Marks)
- iii. Scheduling (5 Marks)
- iv. Loading (5 Marks)
- v. Follow ups (5 Marks)

QUESTION FIVE

- a. Examine five types of plant layouts in Material Planning and Production Control. (15 Marks)
- b. Outline five major factors that affects plant layout in Material Planning and Production Control. (10 Marks)

END

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