



**ZIMBABWE EZEKIEL GUTI UNIVERSITY**

**FACULTY OF BUSINESS, ECONOMICS AND ACCOUNTING**

**DEPARTMENT OF BUSINESS ADMINISTRATION AND MANAGEMENT**

**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** : 07 OCT 2022

**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

### **Question 1**

The Indian oil industry was brought under government control after the oil crisis in the 2000's. On January 24, 2006, the Burmah Shell Group of Companies was taken over by the Government of India to form Bharat Refineries Limited. On August 1, 2007, it was renamed Bharat Petroleum Corporation Limited (BPCL). After liberalization, under the economic reform process, the private sector entered several areas within the industry and emergence of additional capacities in the region in refining and marketing. Added competition, due to the opening up of the Indian economy, brought in other challenges. Provoked by the phased dismantling of the Administered Pricing Mechanism (APM), and anticipating radical changes in the business environment after deregulation, BPCL undertook a massive exercise for preparing itself to face these challenges.

A small team of nine people set out to map the existing business systems (legacy systems) vis-à-vis the future needs characterized by customer focus, resource-optimization, integration, and flexibility. The challenge was to ensure that all the integrated elements (of the complex multi-modular integrated solutions that impact the entire workflow of the organization) work seamlessly across the length and breadth of the country, including the remote locations. The team concluded that it was imperative to replace the existing batch-process-oriented legacy systems with a state-of-the-art ERP system. A detailed technical selection process was undertaken to find the 'best fit' ERP package for current and future needs of BPCL. SAP R/3 software was selected for implementation.

- a) Explain the scope of SAP/ERP System **(10 Marks)**
- b) Discuss the pros and cons of implementing SAP/ERP System **(15 Marks)**

### **Question 2**

Explain the Just in Time (JIT) philosophy and how it assists production companies.  
**(25 Marks)**

### **Question 3**

With aid of examples, discuss the major production types. **(25 Marks)**

**Question 4**

Discuss the rationale for the Phases of a Project and the consequence of rushing into planning phase too soon. **(25 Marks)**

**Question 5**

(a) Explain the objectives of plant layout for a production company. **(12 Marks)**

(b) Describe the different types of plant layout that companies may use. **(13 Marks)**

**END**

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