



**THE MOMBASA POLYTECHNIC UNIVERSITY COLLEGE**

**(A Constituent College of Jkuat)**

***Faculty of Applied & Health Sciences***

**DEPARTMENT OF PURE AND APPLIED SCIENCES**

**DIPLOMA IN SCIENCE LABORATORY TECHNOLOGY (DSL T 09J)**

**SPECIAL/SUPPLEMENTARY EXAMINATION**

**LABORATORY PRACTICE AND MANAGEMENT**

**SERIES: OCTOBER 2011**

**TIME: 2 HOURS**

**Instructions to Candidates:**

You should have the following for this examination

- *Answer booklet*

Answer question **ONE (COMPULSORY)** and choose any other **TWO** questions

This paper consist of **TWO** printed pages

## QUESTION ONE

- a) Explain **FOUR** ways to show how trade union objectives are achieved (4 marks)
- b) Give the abbreviation of C.O.T.U and state its role (4 marks)
- c) Outline **FIVE** types of leave and explain the conditions surrounding each (10 marks)
- d) Explain pump connections in vacuum system (5 marks)
- e) Outline the significance of MFP (4 marks)
- f) Explain the following
  - i) Throughput
  - ii) Quantity of gase
  - iii) Ultimate pressure (3 marks)

## QUESTION TWO

- a) Define the term trade union (2 marks)
- b) Explain at least **THREE** principles of trade unionism (6 marks)
- c) List **FOUR** objectives of trade unionism (4 marks)
- d) Explain the weakness and drawback of trade unionism (8 marks)

## QUESTION THREE

- a) Highlight the circumstances under which an employee's may have his salary deducted by the employer (11 marks)
- b) Explain the following as used in the trade unionism
  - i) Closed shop (2 marks)
  - ii) Open shop (2 marks)
  - iii) Post entry closed shop (2 marks)
- c) Explain the term "picketing" as used in trade unionism (3 marks)

## QUESTION FOUR

- a) Explain the working principle of fractionating diffusion pump (20 marks)

## QUESTION FIVE

- Discuss McLeod gauge (20 marks)