



# 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 (DSL09J)**

**END OF YEAR EXAMINATION**

**LABORATORY PRACTICE AND MANAGEMENT**

**SERIES: AUGUST/SEPTEMBER 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) What is the abbreviation of F.K.E and what is its role (5 marks)
- b) Explain the reasons which prompt workers to join a trade union (5 marks)
- c) Explain the term redundancy (2 marks)
- d) Explain the term conciliation (3 marks)
- e) Indicate diagrammatic representation of vacua with their ranges (5 marks)
- f) Explain the importance of gas ballast (3 marks)
- g) Explain the importance knowing properties of gases in vacuum making (7 marks)

## QUESTION TWO

- a) Explain:
  - (i) The factors Act CAP 514 on health and safety (5 marks)
  - (ii) Workman's Compensation Act CAP 236 (5 marks)
  - (iii) The general provision of Factories Act on health (10 marks)

## QUESTION THREE

- a) (i) Define strike (2 marks)
- (ii) Explain the following forms of strike
  - a) Lock out (2 marks)
  - b) Go slow (2 marks)
- (iii) Differentiate between dispute of interest and dispute of interest (4 marks)
- b) Explain the terms:
  - i) Collective bargaining (3 marks)
  - ii) Tripartism (3 marks)
- c) Explain the role of government in tripartism (4 marks)
- d) List at least **TWO** causes of industrial dispute (2 marks)

## QUESTION FOUR

Discuss rotary sliding vane pump (20 marks)

## QUESTION FIVE

- a) Explain Pirani gauge working principle (12 marks)
- b) Comment on dynamic vacua (8 marks)

