

# TECHNICAL UNIVERSITY OF MOMBASA

# FACULTY OF ENGINEERING AND TECHNOLOGY DEPARTMENT OF MECHANICAL & AUTOMOTIVE ENGINEERING UNIVERSITY EXAMINATION FOR:

DIPLOMA IN MECHANICAL ENGINEERING

EPL2304 : PLANT MAINTENANCE & WORKS SERVICES DRAWING II
END OF SEMESTER EXAMINATION

**SERIES:** APRIL 2016

TIME: 2 HOURS

**DATE:** Pick Date Apr 2016

#### **Instructions to Candidates**

You should have the following for this examination -Answer Booklet, examination pass and student ID

This paper consists of Choose No questions. Attempt Choose instruction.

Do not write on the question paper.

**PAPER ONE** 

#### **Ouestion ONE**

(a) Draw a two-Line ring main diagram of compressed air supply system to following pneumatic units.

[9Marks]

(b) Draw an electrical wiring circuit for a domestic consumer premises.

[6Marks]

(c) Draw a typical layout of a double acting, two stage reciprocating compressor.

[5Marks]

#### **Question TWO**

(a) Draw Lay out plan for a sugar manufacturing process and indicate all the services for the process.

## **Question THREE**

(a)	Draw a	hydraulic:	system	circuit	usin
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#### **Question FOUR**

(a) Draw a hydraulic system circuit using graphical symbols representation to incorporate the following.

[5Marks]

(b) Draw a one-line diagram of a sodium Zeolite water treatment system.

[5Marks]

## **Question FIVE**

(a) Draw a one –line diagram of Hot and Cold water system for a Multi storey building.

[10Marks]

- (a) Draw a plant layout for cement manufacturing using the WET process to include:
  - All the services
  - Product line
  - Colour coding

[20 marks]