



TECHNICAL UNIVERSITY OF MOMBASA

Faculty of Engineering and Technology

DEPARTMENT OF MECHANICAL AND AUTOMOTIVE ENGINEERING

DIPLOMA IN MECHANICAL ENGINEERING

EME 2105 ENGINEERING DRAWING I

END OF SEMESTER EXAMINATIONS

SERIES: DECEMBER, 2013

TIME: 2 HOURS

INSTRUCTIONS TO CANDIDATES:

1. You should have the following for this examination:
 - Answer Booklet
 - Scientific Calculator
 - Drawing Instruments
2. This paper consists of **FIVE** Questions.
3. Answer Question **ONE** is Compulsory.
Answer Question **ONE** and any other **TWO** Questions.
4. **This paper consists of SIX printed pages.**

Question ONE

Figure 1 shows a machine part. Draw full size the following views in Third angle orthographic projection.

- (a) Sectional front elevation along B –B.
- (b) Plan.

Include **SIX** main dimensions and symbol of projection.

(20 marks)

Question TWO

A template of a paper gasket for a machine is shown in Figure 2. Construct the gasket showing clearly how the arcs and curves are obtained.

(20 marks)

Question THREE

Three views of a machine bracket are shown in Figure 3. Draw an **OBLIQUE** view of the bracket taking oblique rules into consideration.

(20 marks)

Question FOUR

A cylindrical chimney is centrally placed at a roof top as shown in Figure 4. Copy the given view and draw:

- (a) End elevation from E.
- (b) True face/shape of face A – A.
- (c) Surface development of the chimney.

(20 marks)

Question FIVE

A truncated pentagonal base pyramid is shown in Figure 5. Copy the given views and draw:

- (a) Complete plan
- (b) End elevation from E
- (c) True shape
- (d) Surface development

(20 marks)