



TECHNICAL UNIVERSITY OF MOMBASA

Faculty of Engineering and Technology

DEPARTMENT OF MECHANICAL AND AUTOMOTIVE ENGINEERING

DIPLOMA IN MECHANICAL ENGINEERING

EME 2108 ENGINEERING DRAWING II

END OF SEMESTER EXAMINATIONS

SERIES: DECEMBER, 2013

TIME: 2 HOURS

INSTRUCTIONS TO CANDIDATES:

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

Question ONE

Figure 1 shows a BRACKET. Draw full size in THIRD angle orthographic projection the following views.

- (a) Front elevation from F
- (b) Sectional end elevation along Q – Q

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

(20 marks)

Question TWO

A pentagonal base pyramid has its base cut as shown in Figure 2. Copy the views and draw:

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

(20 marks)

Question THREE

Figure 3 shows a template of a metal part. Construct the part clearly showing how the centres of the curves have been obtained.

(20 marks)

Question FOUR

Three view of a BRACKET are shown in Figure 4. Draw an oblique view of the bracket taking all rules for oblique into consideration.

(20 marks)

Question FIVE

(a) Write the full meaning of the following abbreviations:

- (i) CHAM
- (ii) CSK
- (iii) CH HD
- (iv) DIA
- (v) A/F
- (vi) C'BORE
- (vii) PCD
- (viii) S'FACE

(4 marks)

(b) Construct a heptagon in a circle of diameter 85mm.

(6 marks)

- (c) Construct quadrilateral ABCD. AB is parallel to CD and 55mm apart. AB = 110mm, CD = 20mm and angle BAD = $37\frac{1}{2}^\circ$. Name the quadrilateral. **(10 marks)**