



THE MOMBASA POLYTECHNIC UNIVERSITY COLLEGE

(A Constituent College of JKUAT)

(A Centre of Excellence)

Faculty of Engineering & Technology

DEPARTMENT OF BUILDING & CIVIL ENGINEERING

UNIVERSITY EXAMINATION FOR:
BACHELOR OF SCIENCE IN CIVIL ENGINEERING (BCE 12SE)

ECE 2101: ENGINEERING DRAWING I

END OF SEMESTER EXAMINATION

SERIES: DECEMBER 2012

TIME: 3 HOURS

Instructions to Candidates:

You should have the following for this examination

- *Answer Booklet*
- *Drawing Instruments*
- *Drawing Paper*

This paper consists of **FOUR** questions. Answer any **THREE** questions

Maximum marks for each part of a question are as shown

This paper consists of **TWO** printed pages

Question One

State the following used in Engineering Drawing:

- (i) 11 Instruments

(ii) 4 materials

(33 1/3 marks)

Question Two

Choosing suitable dimensions, construct the following:

- (i) Square
- (ii) Rectangle
- (iii) Parallelogram
- (iv) Isosceles triangle
- (v) Equilateral triangle
- (vi) Scalene triangle

(33 1/3 marks)

Question Three

Choosing a suitable radii construct the following polygons with inscribed and escribed circles.

- i) Pentagon
- ii) Hexagon
- iii) Decagon

(33 1/3 marks)

Question Four

a) Using horizontal axis and directions plot:

- (i) Ellipse ecc. 1:2
- (ii) Ellipse ecc. 3:4
- (iii) Hyperbola ecc 1:1

(33 1/3 marks)