



THE MOMBASA POLYTECHNIC UNIVERSITY COLLEGE

(A Constituent College of Jkuat)

Faculty of Engineering and Technology

DEPARTMENT OF BUILDING AND CIVIL ENGINEERING

**DIPLOMA IN BUILDING & CIVIL ENGINEERING
DIPLOMA IN ARCHITECTURE**

EBC 2204: ENGINEERING DRAWING II

END OF SEMESTER EXAMINATION

SERIES: AUGUST/SEPTEMBER 2011

TIME: 3 HOURS

Instructions to Candidates:

You should have the following for this examination

- *Answer booklet*
- *Drawing instruments and drawing paper size A3*

Answer question **ONE (COMPULSORY)** and any other **TWO** questions

Maximum marks for each part of a Question are as shown

This paper consists of **THREE** printed pages

SECTION A (COMPULSORY)

Question 1

From figure 1 shown below, draw the following in 3rd angle projection.

- The front elevation as shown by arrow FE.
- The end elevation in section on cutting plane M-M
- The plan in section on cutting plane L-L. Do not copy the drawing (30 marks)

Fig 1 (please see attached)

SECTION B (Answer any TWO questions)

Question 2

Fig 2 shows a mild-steel bracket. Draw in 1st angle projection. Full size

- A front elevation in the direction of Arrow F.
- An end elevation in the direction of arrow E
- A plan in the direction of arrow P
- The symbol and dimensions must be included (20 marks)

Fig 2 (please see attached)

Question 3

Figure 3 shows three views of a block in an angle of projection. State which

- Angle of projection used
- Using the dimension given, draw full-size the isometric view of the block with x as the lowest point. Dimension the drawing (20 marks)

Fig 3 (please see attached)

Question 4

Make free hand pictorial sketches of any four of the following hand tools found in building and civil workshops.

- Claw hammer
- Ball pen hammer

- c) File handle
- d) Flat file
- e) Painting brash
- f) Spirit level
- g) Funnel
- h) Anvil
- i) Mallet
- j) Flat screw driver
- k) Spirit level
- l) Star screw driver (20 marks)

Question 5

- a) Draw the surface development of the cone shown in figure 4(a) below (10 marks)

50

- b) If the cone in fig 4 4(a) is now cut obliquely as shown in fig 4(b), draw:
 - (i) The true shape of cut on Front Elevation
 - (ii) Plan
 - (iii) End elevation (10 marks)