



MACHAKOS UNIVERSITY COLLEGE

(A Constituent College of Kenyatta University)

University Examinations 2015/2016

SCHOOL OF ENGINEERING AND TECHNOLOGY

DEPARTMENT OF BUILDING AND CIVIL ENGINEERING

FIRST SEMESTER EXAMINATION FOR BACHELOR OF SCIENCE IN CIVIL
ENGINEERING

ECV 100: ENGINEERING DRAWING I

Date: 26/04/2016

Time: 8.30-10.30 AM

INSTRUCTIONS

This paper consists of FIVE questions

Answer question one and other two questions in this paper

QUESTION ONE

- a) Discuss the artistic and technical types of drawing (5 marks)
- b) Explain the different application of technical drawing (3 marks)
- c) Explain the use of at least FOUR type of different drawing equipment (8 marks)
- d) Discuss with examples the FOUR main classification of letter styles (8 marks)
- e) Draw a regular hexagon having 60mm long sides, using general method. (6 marks)

QUESTION TWO

- a) Figure 1 shows the pictorial view of an object. Draw the following views.
 - i) Front view in direction of arrow,
 - ii) Top view, and
 - iii) Sideview from right. (20 marks)

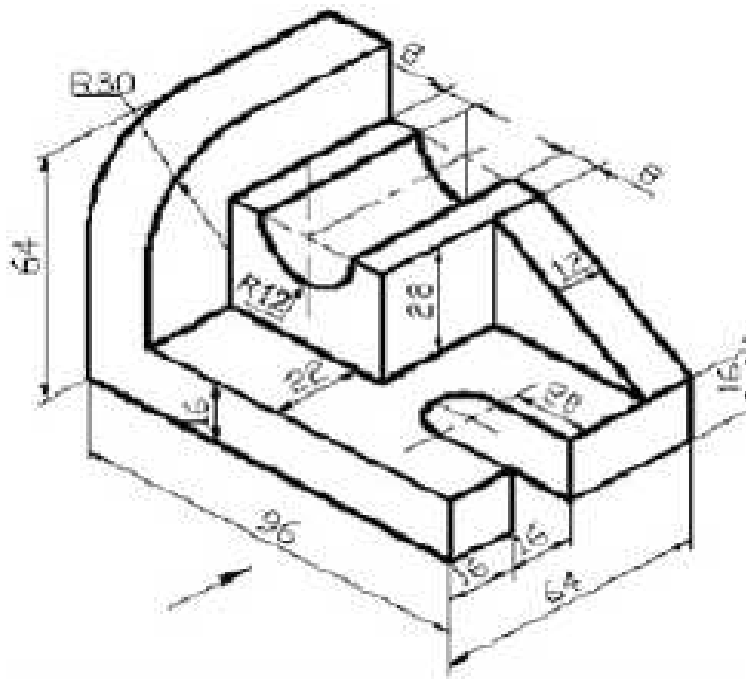


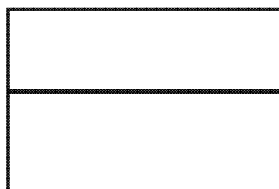
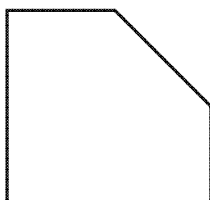
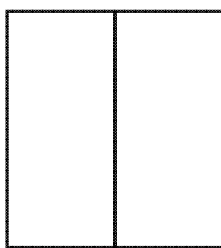
Figure 1.

QUESTION THREE

- Give the symbolic representation of FIRST and THIRD ANGLE projection (10 marks)
- Inscribe a regular octagon in a circle having a 80mm side (10 marks)

QUESTION FOUR

The orthographic view of an object is shown in the figure below. Draw the true shape of the inclined surface on an auxiliary plane. (20 marks)



QUESTION FIVE

A cylinder with a 80mm base diameter is resting on its base on the H.P. It is penetrated by another cylinder with a 50mm base diameter, the axes of which is parallel to both the principal planes. The two axes intersect each other at right angles. Draw the projections of the combination and show the curves of intersection. (20 marks)