



MURANG'A UNIVERSITY COLLEGE

(A Constituent College of Jomo Kenyatta University of Agriculture & Technology)

SCHOOL OF ENGINEERING AND TECHNOLOGY
MECHANICAL ENGINEERING DEPARTMENT

ME/P/14DM DIPLOMA IN PRODUCTION ENGINEERING
COMPUTER-AIDED DRAWING COURSE CODE: SEM 1209
SPECIAL/SUPPLEMENTARY EXAMINATION

DATE: 30TH OCTOBER 2015

TIME: 2 HOURS

Instructions to the candidate:

- I. This examination is comprised of ONE **compulsory** question.
- II. The maximum marks are as indicated.

ME/P/14DM DIPLOMA IN PRODUCTION ENGINEERING
COMPUTER-AIDED DRAWING COURSE CODE: SEM 1209
END OF SEMESTER TWO (YEAR TWO) EXAMINATION

SPECIAL/SUPPLEMENTARY EXAMINATION

DATE: AUGUST 2015

TIME: 2 HOURS

Instructions to the candidate:

- III. This examination is comprised of ONE **compulsory** question.
- IV. The maximum marks are as indicated.

Marks will be awarded for important preparatory steps such as drawing set-up, settings for limits and units, layers and text. Save your work as soon as you start the CAD software on the Desktop in a folder bearing your registration number.

Question 1 (Compulsory)

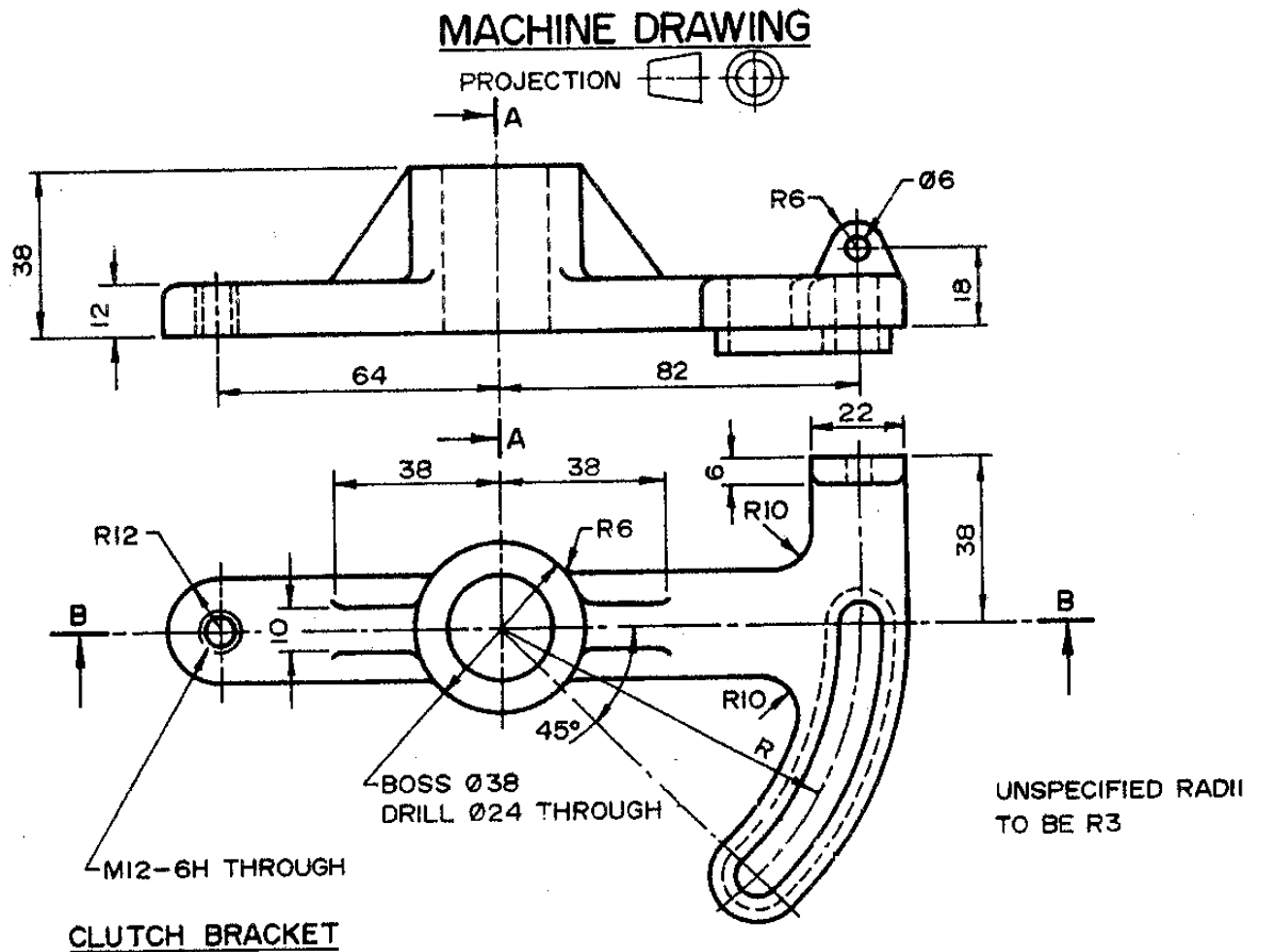
Figure 1 shows two views of a CLUTCH BRACKET.

- a) Copy the front elevation and *where necessary* modify it into a sectional elevation on cutting plane B-B. *Do not dimension this view.*

(40 marks)

- b) Copy the given plan view. Complete it with all hidden details and dimensions.

(30 marks)



Important Settings:

- a. Limits for the drawing space: 400X300 units
- b. All units should be millimeters. Set the precision at 0.
- c. All arrowhead lengths and text heights in dimensioning should be 4mm.
- d. The layers to be created are as follows:
 - i. Outlines (White colour)
 - ii. Hidden Details (Yellow colour)
 - iii. Center Lines (Cyan colour)
 - iv. Dimensions (Green colour)
 - v. Hatching (Magenta colour)

You are expected to choose the appropriate linetype for each layer on your own.