



MACHAKOS UNIVERSITY

University Examination 2018/2019

SCHOOL OF ENGINEERING AND TECHNOLOGY
DEPARTMENT OF BUILDING AND CIVIL ENGINEERING
FIRST YEAR SECOND SEMESTER EXAMINATION FOR
DIPLOMA IN CIVIL ENGINEERING
BCE CD 117: ENGINEERING DRAWING II

DATE: 8/5/2019

TIME: 8:30 – 10:30 AM

INSTRUCTIONS

Answer question **ONE** and any other **Two** questions

1. Fig1 shows a truncated hexagonal pyramid.

Using first angle arrangement, draw the following views

- i) The given front elevation,
- ii) End elevation in the direction of arrow “E”,
- iii) True shape of the cut surface
- iv) Plan
- v) surface development of the frustum (30 marks)

2. Fig2 shows an incomplete interpenetration of two unequal cylinders.

Copy the given view full size and draw the following views

- i) Complete plan
- ii) Complete front elevation showing the curve of intersection,
- iii) Development of cylinder “B” (20 marks)

3. Fig3 shows the plan of simple nursery school classroom.

Draw section A_A from the foundation to the wall plate. (20 marks)

4. Draw neat free hand sketches of the following hand tools using
- i) mason hammer
 - ii) flat screw driver
 - iii) wooden float
 - iv) flat file
- (20 marks)
5. Fig 5 shows the front elevation and plan of a square based prism with a triangular pyramid placed centrally on top.
- Copy the given views and project the following views
- i) An auxiliary elevation on plane X1-Y1
 - ii) An auxiliary plan on plane X2-Y2
- (20 marks)