



MACHAKOS UNIVERSITY COLLEGE

(A Constituent College of Kenyatta University)
University Examinations for 2015/2016

SCHOOL OF ENGINEERING AND TECHNOLOGY

DEPARTMENT OF BUILDING AND CIVIL ENGINEERING

**FIRST SEMESTER EXAMINATION FOR
DIPLOMA IN BUILDING TECHNOLOGY
DIPLOMA IN CIVIL ENGINEERING**

BCDECD 206: ENGINEERING DRAWING III

Date:

Time:

INSTRUCTIONS

This paper consists of FIVE questions

Answer question one (compulsory) carry 30 marks and any other two questions

QUESTION ONE

- a) From figure 1 (a) drawn an isometric section on the cutting plane G.G and show all the dimensions. (20 marks)
- b) Fig. 1(b) shows the floor plan of a simple nursery school classroom. To a scale of 1:10 draw a typical cross section “BB” from the foundation strip upto and including cement/sand screed. (10 marks)

QUESTION TWO

Fig 2 shows a hexagonal pyramid cut by a cutting plane Y-Y inclined at an angle of 30 to the base. Draw the following views:-

- a) The complete sectional plan.

- b) The end elevation.
- c) True shape of the cut surface
- d) Surface development of the frustum. (20 marks)

QUESTION THREE

Fig 3 shows a cylinder that has been cut from the bottom. Draw;

- a) The given views
- b) The plan
- c) The development of the cylinder. (20 marks)

QUESTION FOUR

Fig 4 show a right solid cylinder cut by a cutting plane X-X at an angle of 45^0 to the base. Draw;-

- a) The complete sectional plan.
- b) True shape of the cut surface.
- c) The development of the frustum. (20 marks)

QUESTION FIVE

Fig. 5 shows a cone that has been cut at an angle of 45^0 to the base. Draw the follow:-

- a) The given views.
- b) The complete sectional plan.
- c) End elevation.
- d) True shape of cut section.
- e) Auxiliary elevation on the front elevation at an angle of 30^0 . (20 marks)