



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 CERTIFICATE IN BUILDING

CONSTRUCTION TECHNOLOGY

BCEBT 206: ENGINEERING DRAWING III

Date: 21/4/2016

Time: 2:00 – 4:00 PM

INSTRUCTIONS

This paper consists of FIVE questions

Answer question one and any other two questions in this paper

QUESTION ONE

Fig. 1 shows the front elevation of a hexagonal based pyramid of sides 35 mm and a vertical height of 75 mm. Draw in 1st angle projection the following views of the truncated pyramid;

- a) The given elevation
- b) Plan
- c) End elevation
- d) True shape of the cut surface
- e) Surface development

(30 marks)

QUESTION TWO

- a) Draw an archimedian spiral starting at the centre of a circle given the radius as 50mm (10 marks)
- b) Draw an involutes' of a circle given the radius of the circle as 25mm. (10 marks)

QUESTION THREE

Fig. 2 shows three views of a block. Draw an isometric view of the block as seen in the direction of arrow A. (20 marks)

QUESTION FOUR

Fig 3 shows a block in pictorial view, copy the fig. and show the dimensions (20 marks)

QUESTION FIVE

Fig 4 shows two pipes of unequal diameters meeting obliquely. Draw the following,

- a) Copy the given elevation
- b) Draw the plan
- c) Show the line of intersection
- d) Draw the surface development of pipe 'A' (20 marks)