



MACHAKOS UNIVERSITY COLLEGE

(A Constituent College of Kenyatta University)

University Examinations 2015/2016

SCHOOL OF ENGINEERING AND TECHNOLOGY

DEPARTMENT OF BUILDING AND CIVIL ENGINEERING

SECOND SEMESTER EXAMINATION FOR CERTIFICATE IN BUILDING

CONSTRUCTION TECHNOLOGY

BCE BT115

ENGINEERING DRAWING II

Date: 21/4/2016

Time: 2:00 – 4:00 pm

INSTRUCTIONS

This paper consists of FIVE questions

Answer question one and other two questions in this paper

QUESTION ONE

- a) Fig 1(a) shows a link mechanism in which AB revolves about A, whilst end C describes an arc about center D. Plot the locus of point E as AB makes one revolution. AB=35mm, BC=125mm, CD=75mm, CE=65mm. (10 marks)
- b) Fig 1(b) shows the pictorial view of a block. Draw the orthographic views of the block in 3rd angle projection taking F.E from direction of arrow 'F' and E.E from the direction of arrow 'E'. Show all the dimensions. (10 marks)
- c) Copy fig 1(c) in isometric projection and show all the dimensions. (10 marks)

QUESTION TWO

Draw fig 2 in 3rd angle projection and show all the dimensions. View the F.E from the direction of arrows 'A' but do not copy the figure. (20 marks)

QUESTION THREE

Fig 3 shows a pictorial drawing in isometric projection. Draw its orthographic views in first angle projection with the front elevation viewed from the direction of arrow 'X'. Show all the dimensions. (20 marks)

QUESTION FOUR

Fig 4 shows three views of a block drawn in first angle projection. Assemble the views and produce a pictorial drawing with 'A' as the lowest point. (20 marks)

QUESTION FIVE

Draw fig 5 in isometric projection and indicate all the dimensions. (20 marks)