



# MACHAKOS UNIVERSITY

University Examinations 2017/2018

SUPPLEMENTARY/SPECIAL EXAMINATIONS

SCHOOL OF ENGINEERING AND TECHNOLOGY

DEPARTMENT OF BUILDING AND CIVIL ENGINEERING

SECOND YEAR FIRST SEMESTER EXAMINATION FOR

DIPLOMA IN CIVIL ENGINEERING

**BCECD206: ENGINEERING DRAWING III**

**DATE: 29/8/2018**

**TIME: 2:00 – 4:00 PM**

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## INSTRUCTIONS

- *This paper comprises of **five** questions*
- *Question **one** is **compulsory** and carry 30 marks*  
*Answer any **other***

### QUESTION ONE (COMPULSORY) (30 MARKS)

- a) From figure 1(a), draw the following;
- Plan and elevation as shown,
  - Section plan,
  - End elevation,
  - Development,
  - True shape of the cut section. (20 marks)
- b) From fig.1 (b) draw a section through cutting plane x-x. (10 marks)

### QUESTION TWO (20 MARKS)

From figure 2, draw an isometric section through cutting plane y-y. (20 marks)

**QUESTION THREE (20 MARKS)**

Three views of a block are shown in figure 3, Assemble the views and produce a pictorial drawing making 'x' the view point. (20 marks)

**QUESTION FOUR (20 MARKS)**

From the plan of a simple building drawing on figure 4, draw section x-x from the foundation to the roof. (20 marks)

**QUESTION FIVE (20 MARKS)**

From figure 5, draw the following;

- i. Front elevation as shown
- ii. An end elevation in the direction of the arrow A
- iii. The full development. (20 marks)



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SCHOOL OF ENGINEERING AND TECHNOLOGY

DEPARTMENT OF BUILDING AND CIVIL ENGINEERING

FIRST YEAR SECOND SEMESTER EXAMINATION FOR DIPLOMA IN CIVIL

ENGINEERING

BCECD 117: ENGINEERING DRAWING II

DATE: 6/6/2017

TIME: 2:00 – 4:00 PM

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## INSTRUCTIONS

- This paper comprises of **five** questions
- Question **one** is **compulsory** and carry 30 marks

Answer any **other**

### QUESTION ONE (30MARKS)

- Draw figure 1(a) in first angle projection with the front elevation looking in the direction of arrow 'x' (20 marks)
- Copy figure (1b) in isometric projection as shown (10 marks)

### QUESTION TWO (20 MARKS)

Draw fig 2 in third angle projection with the front elevation looking in the direction of arrow 'x'. (20 marks)

### QUESTION THREE (20 MARKS)

Fig 3 shows a cylinder that has been mounted on a block. Produce the figure in isometric projection. (20 marks)

### QUESTION FOUR (20 MARKS)

Figure 4 shows three views of a block.

Assemble the views and produce a 3 dimension pictorial drawing. (20 marks)

**QUESTION FIVE (20 MARKS)**

From figure 5, draw the following;

i. Front elevation

ii. End elevation

iii. Plan

iv. True shape of cut section.

(20 marks)



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University Examinations 2016/2017

SCHOOL OF ENGINEERING

DEPARTMENT OF BUILDING AND CIVIL ENGINEERING

FIRST YEAR SECOND SEMESTER EXAMINATION FOR CERTIFICATE IN

BUILDING CONSTRUCTION TECHNOLOGY

BCEBT 115: ENGINEERING DRAWING II

DATE: 5/6/2017

TIME: 2:00 – 4:00 PM

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## INSTRUCTIONS

- This paper comprises of **five** questions
- Question **one** is **compulsory** and carry 30 marks

Answer any **other**

### QUESTION ONE (30 MARKS)

- a) The crank BD rotates about a fixed point D. The link rod is pin jointed at B and is fixed to the slider c at the other end. The slider is free to move in an east to west direction. Draw the locus of point A when the crank BD makes one complete revolution.

AC=50, AB=40, BD=30. (15 marks)

- b) From fig; 1(b) draw the cycloid of point 'p' through one revolution of the circle along a straight line. (15 marks)

### QUESTION TWO (20 MARKS)

Copy figure 2 in isometric projection and show all the dimensions. (20 marks)

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### QUESTION THREE (20 MARKS)

Draw figure 3 in first angle projection. (20 marks)

**QUESTION FOUR (20 MARKS)**

Draw figure 4 in oblique projection.

(20 marks)

**QUESTION FIVE (20 MARKS)**

Draw the block in figure 5 in isometric projection.

(20 marks)