



# TECHNICAL UNIVERSITY OF MOMBASA

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FACULTY OF ENGINEERING AND TECHNOLOGY

DEPARTMENT OF MEDICAL ENGINEERING

**UNIVERSITY EXAMINATION FOR:**

DIPLOMA IN MEDICAL ENGINEERING

**EME 2151: COMPUTER AIDED DRAWING & DESIGN**

END OF SEMESTER EXAMINATION

**SERIES: APRIL 2016**

**TIME: 2HOURS**

**DATE:** Pick Date Select Month Pick Year

## Instructions to Candidates

You should have the following for this examination

-Answer Booklet, examination pass and student ID

This paper consists of **FOUR** questions. Attempt question ONE (Compulsory) and any other TWO questions.

**Do not write on the question paper.**

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## Question ONE (Compulsory)

Fig. 1 below shows the outlines of a mild steel spacer plate. Draw the figure, full size, showing clearly the constructions for obtaining the points of contacts.

**(30 marks)**

## Question TWO

Fig. 2 shows the outlines of the three pulley wheels connected by a taut belt. Draw using autocard the figure, full size, showing clearly the constructions for obtaining the points of contacts of the belt and pulley.

**(20 marks)**

### **Question THREE**

- (a) Fig. 3(a) is a given Orthographic views. Sketch free hand using autocad. **(10 marks)**
- (b) Draw using autocad, the pictorial views of Fig. 3b the Orthographic views. **(10 marks)**

### **Question FOUR**

With the aid of the autocad, draw the four views of Fig. 4 and add the hatching, text and dimensions. **(20 marks)**

### **Question FIVE**

Draw the component of Fig. 5 and add text, hatching and dimensions. **(20 marks)**