



TECHNICAL UNIVERSITY OF MOMBASA

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.

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)**