



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: 2 HOURS

DATE: May 2016

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 shows in pictorial view of the proportions of a miniature camera with a lens hood attached. The lower drawing shows in details the dimensions of the view finder, the rear face of which is vertical. Using AutoCAD, re-draw this figure using the same scale. **(30 marks)**

Question TWO

Draw and dimension the **TWO** Orthogonal 1st angle precision views and the sectional isometric of Fig. 2. **(20 marks)**

Question THREE

Draw and dimension the Flange cover and the Rocker Arm of Figure 3 using the same scale.
(20 marks)

Question FOUR

Draw the given components and add all dimensions. Creating appropriate dimension styles of Fig. 4 for the plug 1, plug 2 and shaft X section.
(20 marks)

Question FIVE

Draw, dimension and add text of the cover plate and signal arm of Figure 5. Use layers correctly.
(20 marks)