



TECHNICAL UNIVERSITY OF MOMBASA

DEPARTMENT OF MECHANICAL AND AUTOMOTIVE ENGINEERING

THIRD YEAR UNIVERSITY EXAMINATION FOR THE DEGREE IN BACHELOR OF SCIENCE IN MECHANICAL ENGINEERING (BSME 3 Evening)

EMG 2204 COMPUTER AIDED DRAWING & DESIGN

END OF SEMESTER EXAMINATIONS

SERIES: DECEMBER, 2013

TIME: 2 HOURS

INSTRUCTION TO CANDIDATES

1. You should have the following for this examination:-
 - Answer Booklet
 - A computer installed with AutoCAD programme
 - Drawing Instruments
 2. This paper consists of **FIVE** questions.
 3. Answer Question **ONE** is **(COMPULSORY)**, **ONE** Question from Section **B** and **ONE** Question from Section **C**.
 4. Maximum marks for each part of Question are as shown.
 5. This paper consists of **THREE** printed pages.
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Question ONE (Compulsory)

- (a) State any **FIVE** disadvantages of computer Aided Drawing and Design as compared to Manual Drawing and Design. **(5 marks)**
- (b) Explain the **FOUR** features of AUTOCAD software. **(8 marks)**
- (c) State the **THREE** methods of activating and using AUTOCAD commands. **(3 marks)**
- (d) Define the following AUTOCAD terminologies:

- (i) Tool palette
- (ii) Block
- (iii) Plot
- (iv) Hatch

(4 marks)

Question TWO

Reproduce in AUTOCAD the 2-dimensional view of a machine part shown in Figure Q2.

(20 marks)

Question THREE

Reproduce the AUTOCAD the 2-dimensional view of the part shown in Figure Q3.

(20

marks)

Question FOUR

Reproduce in AUTOCAD the machine bracket shown in Figure Q.4. Using 3-D modeling.

(20

marks)

Question FIVE

Reproduce in AUTOCAD the machine bracket shown in Figure Q.5 using 3-D modeling.

(20

marks)