



## TECHNICAL UNIVERSITY OF MOMBASA

Faculty of Engineering and Technology  
Department of Electrical & Electronics Engineering  
UNIVERSITY EXAMINATION FOR:  
BSc. Electrical Engineering  
EMC 4522 : Computer Aided Design  
SPECIAL/SUPPLEMENTARY EXAMINATION  
SERIES: SEPTEMBER 2018  
TIME: 3 HOURS  
DATE: Pick Date Sep 2018

### Instruction to Candidates:

You should have the following for this examination

- Answer booklet
- Non-Programmable scientific calculator

This paper consists of **FIVE** questions. Attempt question **ONE** and any other **TWO** questions.

Maximum marks for each part of a question are as shown.

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

### SECTION A (2D-Drafting and Annotation), COMPULSORY

#### Question ONE

- a) Create a title block of 420 by 297 mm. The details of the lower right corner should be as of **Fig. 1(a)**, but customized to match individual student details. (10 marks)

40 15 15	<b>Technical University of Mombasa</b> P.O. Box 90420-80100, Mombasa, Kenya. www.tum.ac.ke	100	80
	Student Name: William Mulewa	Student Number: 112T00038	
	<b>SCALE:</b> 1:1	<b>DRAWING NO.:</b> Question One	
	<b>TITLE:</b> 2D Drafting & Annotation	<b>DATE:</b> 13/March/2017	
200			

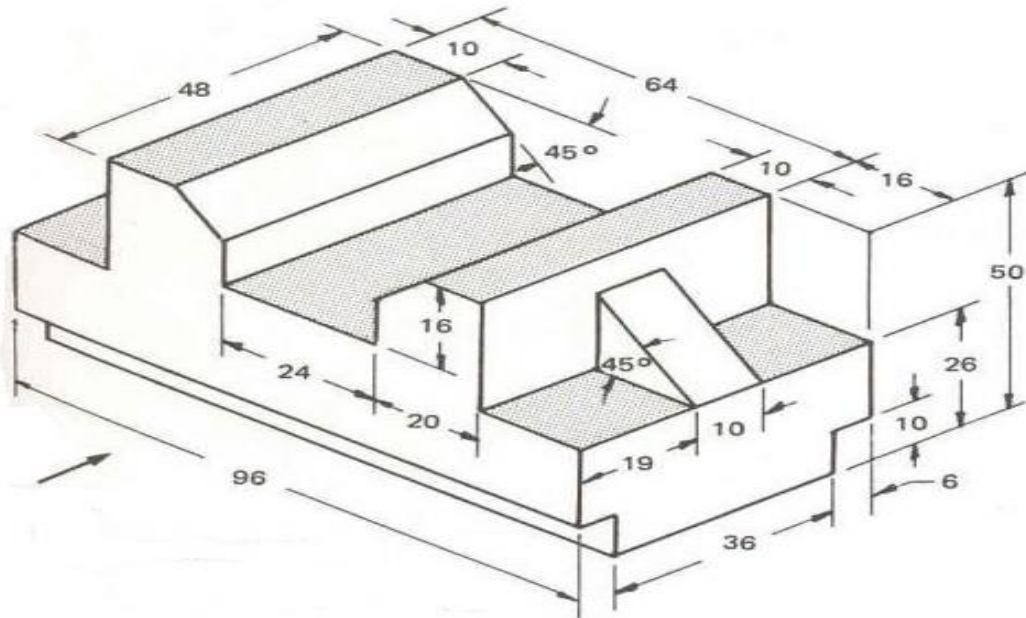
**Fig. 1(a)**



### Question THREE

Construct an isometric drawing of **Fig. 3** and dimension appropriately.

(20 Marks)



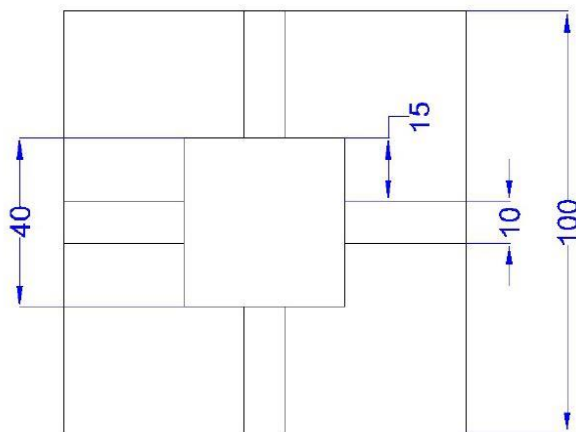
**Fig. 3**

### SECTION C (3D-Modeling), ATTEMPT Q4 OR Q5

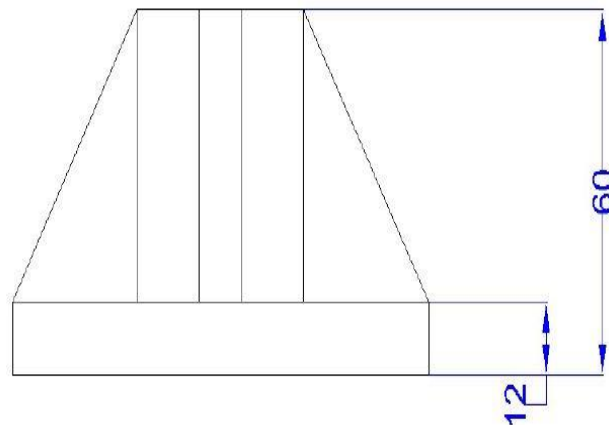
#### Question FOUR

**Fig. 4(a)** and **Fig. 4(b)** represent the top and side views of an object respectively. Construct a 3D-model in S/E isometric view and present the model in Conceptual visual style. Do not dimension.

(20 marks)



**Fig. 4(a)**



**Fig. 4(b)**

### Question FIVE

**Fig. 5(a)** and **Fig. 5(b)** represent the top and right views of an object respectively. Construct a 3D-model in S/E isometric view and present the model in Conceptual visual style. Do not dimension. (20 marks)

