

TECHNICAL UNIVERSITY OF MOMBASA

FACULTY OF ENGINEERING AND TECHNOLOGY DEPARTMENT OF MEDICAL ENGINEERING UNIVERSITY EXAMINATION FOR:

DIPLOMA IN MEDICAL ENGINEERING
EHL 2208: KITCHEN & LAUNDRY EQUIPMENT
SPECIAL/SUPPLEMENTARY EXAMINATION

SERIES: SEPTEMBER 2018

TIME: 2HOURS

DATE: Pick Date Sep 2018

Instructions to Candidates

You should have the following for this examination *Answer Booklet, examination pass and student ID*

This paper consists of FIVE questions. Attemptquestion ONE (Compulsory) and any other TWO questions.

Do not write on the question paper.

Question ONE

Question C	INE.	
a)	With reference to construction and loading, explain the THREE main types of washing machines	10 Marks
b)	Explain the following terms/components as used in washing machine process	
	i) Tumbling	
	ii) Spinning	
	iii) Solenoid valve	
	iv) Load	
	v) Detergent	10 Marks
c)	As a medical engineering technologist, explain the FIVE reasons why you should learn about kitchen and laundry equipment.	10 Marks
Question T	·wo	
a)	Explain any THREE main groups of kitchen equipment	3 Marks
b)	Explain FOUR energy supplies to a standard kitchen	4 Marks
c)	Assume you are designing a kitchen for a county hospital, explain the	
	important factors to be considered in the designing process	13 Marks
Question T	THREE	
a)	i) Explain any THREE quantities/parameters which must be controlled during automatic washing process.	
	ii) Evalain how they (quantities/parameters in 3 (a) (ii) are controlled	Q Marks

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ii) Explain how they (quantities/parameters in 3 (a) (i)) are controlled 9 Marks

b) Explain why washing machines are fitted with the following:-

> i) Shock absorbs

ii) Two washing detergent chambers/compartments 11 Marks

Question FOUR

8 Marks a) Outline the sequences involved in an automatic machine washing process

b) Explain the following terms as used in washing machines.

- i) A process
- ii) Control

Automatic control iii)

12 Marks

Question FIVE

- 1. a) With the aid of neat sketches, describe the following:
 - i) Ball bearings
 - ii) Roller bearings
 - iii) Needle bearings
 - iv) Plain bearings
 With the aid of neat sketches, explain the **THREE** types of mechanical methods

b) With the aid of neat sketches, explain the **THREE** types of mechanical methors used to transmit motion from driver to driven in washing machines

9 Marks

8 Marks

c) With reasons, name the commonest method used to transmit motion from driver to driven in washing machines

3 Marks