

Technical University of Mombasa

Faculty of Engineering and Technology DEPARTMENT OF MEDICAL ENGINEERING

DIPLOMA IN MEDICAL ENGINEERING (DME 213 Y2 S1)

EHL 2203 HOSPITAL SERVICE SYSTEMS

END SEMESTER EXAMINATIONS

SERIES: DECEMBER, 2013 **TIME:** 2 HOURS

INSTRUCTIONS TO CANDIDATES:

-This paper consists of **FIVE** questions

-Answer Question ONE COMPULSORY and ANY TWO questions.

This paper consists of 4 PRINTED pages

QUESTION ONE (COMPULSORY)

` ,	th reference to construction and loading, explain the THREE main types of wash schines.	ning (10 marks)
(b) De	scribe the following terms as used in water:-	
(i)	Pure water	
(ii)	Clean water	
(iii)	Hard water	
(iv)	Soft water	
(v)	PH	(10 marks)
(c) Exj (i) (ii) (iii) (iv) (v)		(10 marks)
QUEST	ION TWO	
(a) Ex ₁	plain the SIX essential parameters of a pump.	(12 marks)
	ure 01 shows a semi-rotary pump or wing pump explain how the pump works/ or ing pumping process	perates (8 marks)

QUESTION THREE

(a)	Outlin	e the sequences involved in an automatic machine washing process.	(8 marks)
(b)	Explai	in the following terms as used in washing machines:-	
	(ii)	A process Control Automatic control.	(12 marks)
QUE	STIO	N FOUR	
(a)	Differ	entiate between the following pipe fittings:-	
	` '	Valve Tap	
` ′		FIVE materials from which pipes and pipe fittings are manufactured from out tages in each case.	(4 marks) lining (10 marks)
(c)	Classi	fy any THREE examinations that may be carried out on drinking water.	(6 marks)
)UE	STIO	N FIVE	
(a)	Expla	nin any FIVE main groups of plumbing tools.	(10 mark)
(b)	Expla	ain the following terms/components as used in machine washing process:	
	(i) (ii) (iii) (iv)	Tumbling Spinning Solenoid valve Load	740
	(v)	Detergent.	(10 marks)