

Faculty of Engineering and Technology

DEPARTMENT OF MEDICAL ENGINEERING

DIPLOMA IN MEDICAL ENGINEERING (DME JAN 2013/S-PT Y2 S1)

EHL 2205 KITCHEN AND LAUNDARY EQUIPMENT

SPECIAL/SUPPLEMENTARY EXAMINATIONS

SERIES: JUNE 2013 **TIME:** 2 HOURS

INSTRUCTIONS TO CANDIDATES:

You should have the following for this examination

➤ Answer booklet

Question **ONE** is **COMPULSORY** and any other **TWO** This paper consists of **3 PRINTED** pages

	QUESTION ONE	(COMPUL	SORY
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(d)

QUI	2011	ON ONE (COMI OESONI)	
(a)	-	lain FIVE reasons why kitchen and laundry departments are considered to be ortant departments in the hospital.	very (10 marks)
(b)) Diffe	erentiate between the following	(10 marks)
	(i) (ii) (iii)	Manual control and automatic control Washing machine and tumbler dryer Pre-wash and main wash.	(6 marks)
(c)	Expl	lain the function(s) of the following:-	
	(i) (ii) (iii)	Bearing Shaft seal Pulley/Belt combination	(6 marks)
Outl	ine th	e sequence of events in an automatic washing machine process. (8 m	arks)
QUI	ESTIC	ON TWO	
(a)	Expl	lain why washing machines are fitted with the following:-	
	(i) (ii)	Shock absorbers Two washing detergent chambers/compartments.	(4 marks)
(b)	(i)	(i) State any THREE quantities/parameters which must be controlled during automatic washing process	
	(ii)	Explain how the (quantities/parameters which must be controlled during autwashing process.	tomatic (9 marks)
(c)	Sket	ch Pulley/Belt combination for motion transmission.	(7 marks)
QUI	ESTIC	ON THREE	
(a)	-	lain FIVE reasons why a medical engineering technologist should learn aboudry equipment.	t kitchen and (10 marks)
(b)) Desc	cribe the THREE main types of washing machines.	(10 marks)

QUESTION FOUR

(a)	With the aid of neat sketches, differentiate the following:-	(8 marks)
	 (i) Ball bearings (ii) Roller bearings (iii) Needle bearings (iv) Plain bearings. 	
(b)	Explain the following terms as used in washing machines	
	(i) A process (ii) Tumbling (iii) Spinning QUESTION FIVE	(12 marks)
	(a) State any THREE main groups of kitchen equipment.	(3 marks)
	(b) State FOUR energy supplies to a standard kitchen	(4 marks)
	(c) Assume that you are designing a kitchen for a country hospital, explain the factors to be considered in the designing process.	e important (13 marks)