

TECHNICAL UNIVERSITY OF MOMBASA

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

BSC IN MEDICAL ENGINEERING
EEE 4230: WORKSHOP TECHNOLOGY AND PRACTICE II
END OF SEMESTER EXAMINATION

SERIES:APRIL2016

TIME:2HOURS

DATE:18May2016

Instructions to Candidates

You should have the following for this examination -Answer Booklet, Drawing instruments, Scientific calculator, examination pass and student ID This paper consists of Choose No questions. AttemptChoose instruction.

Do not write on the question paper.

Ouestion ONE

- a) (i) Describe any THREE classes of fire and explain how each is suitably suppressed
 - (ii) Describe any THREE primary hazards associated with electricity on the human body

(30 Marks)

Question TWO

- a) (i) Distinguish the two types of pipe threads used by the British Standard Pipe (BSP), and explain the pipe thread sizing
 - (ii) Discuss the function of oil used when cutting pipe threads with a die and stock

(12 Marks)

b) Describe how metallic electrical conduit pipe systems are	e classified
	(8 Marks)
Question THREE	
Discuss each of the four basic parts that form an electric circuitlustrate	cuit for an industrial set-up, and use a sketch to
	(20 Marks)
Question FOUR	
Given the following items,	
 TWO Switches ONE lamp Alternating Current supply a) Use conventional symbols to draw neatly wiring diagrams 	s for the following conditions
i. Switches in parallelii. Switching lamp from two places	
	(12 Marks)
b) Distinguish between an open circuit and a short circuit cit	ting their probable causes
	(8 Marks)
Question FIVE	
a) Distinguish any THREE metal pipe bending methods	
	(12 Marks)
b) Describe how you would make a right angled steel pipe b	end using bending dies
	(8 Marks)