

### MACHAKOS UNIVERSITY

# SCHOOL OF ENGINEERING AND TECHNOLOGY DEPARTMENT OF MECHANICAL AND MANUFACTURING

#### ENGINEERING.

## SECOND SEMESTER EXAMINATION FOR ARTISAN IN MECHANICAL ENGINEERING (WELDING AND FABRICATION )

# **TRADE THEORY** (TIVET)

DATE	TIME 3HRS
ATTEMPT ALL QUESTIONS	
1 (a) Define the term accident.	(2 marks)
(b) List SIX objectives of industrial safety.	(6 marks)
(c) State <b>TWELVE</b> causes of accidents in a workshop.	(12 marks)
2. Explain the use, care and maintenance as well as the safety precaut	tions when handling a
bench vice.	(20 Marks)
3. (a) List <b>SIX</b> tools used in marking out.	(3 Marks)
(b) Using a sketch explain the use, care and maintenance and safet	y when using a scriber.
	(17 Marks)
4. (a) Name <b>SIX</b> tools used for measuring and checking	(3 Marks)
(b) (I) Outline the uses, care and maintenance of a vernier calliper	rs
(II) Using a neat sketch, show a reading of 1.93 inches on a ve	ernier calliper.

(17 Marks)

5.	(a)	State <b>TEN</b>	safety p	recautions to	be	observed	when	working	in a wor	kshop

	(5 Marks)
(b) Explain <b>THREE</b> classes of fires	(9 marks)
(c) List <b>FOUR</b> fire fighting media	(6 Marks)