CHUKA



UNIVERSITY

UNIVERSITY EXAMINATIONS

EXAMINATION FOR THE AWARD OF DEGREE OF

AGEN 112: INTRODUCTION TO WORKSHOP TECHNOLOGY

STREAMS:

TIME: 2 HOURS

DAY/DATE: MONDAY 13/04/2015 11.30 AM – 1.30PM INSTRUCTIONS:

Answer ALL Questions in Section One and any other Two Questions in Section Two

SECTION ONE

1.	List t	[5 marks]						
2.	Expla	Explain four characteristics of measuring instruments						
3.	(i)	Explain the term welding	[2 marks]					
	(ii)	Explain four limitations of welding	[4 marks]					
	(iii)	List four advantages of gas welding	[4 marks]					
4.	Giving examples explain the following:							
	(i)	Unsafe working conditions	[4 marks]					
	(ii)	Unsafe practices on the part of the worker	[5 marks]					
SECTION TWO								
5.	Explain the following forging operations							
	(a)	(i) Upsetting	[4 marks]					
		(ii) Draw down	[4 marks]					

		(iii)	Bending	[4 marks]			
	(b)	Draw	a micrometer caliper and name all the parts	[8 marks]			
6.	Briefl	Briefly explain the following methods of making joints					
	(a)	(i)	Soldering	[4 marks]			
		(ii)	Brazing	[4 marks]			
	(b)	Sketch a good proportion of a vernier caliper name the parts and give its advantages and limitations. [12 marks]					
7.	(a)	Explain Five variables that can influence weldability [5 marks]		[5 marks]			
	(b)	By use of diagrams describe the three types of welding flames used in gas welding and give their field of application. [15 marks]					