

SRI LANKA INSTITUTE OF ADVANCED TECHNOLOGICAL EDUCATION

(Established in the Ministry of Higher Education, vide in Act No. 29 of 1995)

Higher National Diploma in Technology (Agriculture)

Second Year, 2nd Semester Examination – 2016

AG -2208 Manufacturing Technology

Instructions for Candidates: Answer all questions from part I and any two (02) from part II All questions do not carry equal marks	No. of questions: 05 No. of pages: 04 Time: One hour and thirty minutes.					
Index Number						
Part 1						
Q1) i) Draw sketch diagrams to show the following weld	joints.					
a) But joint b) Lap joint c) Corner joint						
	(6 marks)					
ii) Write two examples for each.						
a) Arc welding	-					

b)	Resistant welding
c)	Gas welding
	(6 montro)
	(6 marks)
	sketch diagram to show the following flames in gas welding. Carborizing flame
	(3 marks)
b)	Neutral flame
	(2 marks).
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C)	Uneven flame
	(3 marks)
	(Total 20 marks)

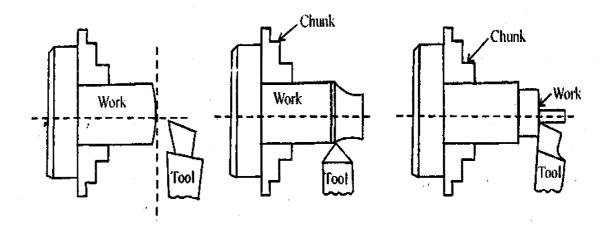
Q2) i) Draw the flow diagram to show the manufacturing process according to the "Economical Process"

ii) Define the term "Apprenticeship" in manufacturing process.

(4 marks)

(4 marks)

iii) Name the three lathe operations given below.



(12marks)

(Total 20marks)

Part II

Answer two questions only.

Q3)	i)	List the four different techniques which are used in manufactu	ring process. (10 marks)
	ii)	Briefly explain the main features of "American system of manufactu	ring process" (10 marks)
	iii)	How does "Mass Customization" help to face business competition?	(10 marks)
		(To	tal 30 marks)
Q4)	i)	Define carpentry.	(10 marks)
	ii)	Draw sketch diagram to show two types of "lap" joints.	(10 marks)
	iii)	Write short notes on the following wood working tools.a) Marking gauge.b) Iron jack plane.	(10 marks)
		(To	tal 30 marks)
Q5)	i)	List usages of the following components in lathe machine. a) Tool post b) Feed road c) Lead screw d) Lathe bed	(10 marks)
	ii)	Classify the steel according to the carbon percentage it consists.	(10 marks)
	iii) Briefly explain the operational difference when making a drill hole in a work pi with the help of a drill machine and a lathe machine. (10 mar		a work piece (10 marks)
	,	(To	tal 30 marks)