KERALA AGRICULTURAL UNIVERSITY B.Tech (Agrl. Engg) 2013 Admission Vth Semester Final - Examination- January-2016

	Farm Machinery and equipments II (2+1)	Marks: 50.00 Time: 2 hours
I I	up the blanks	(10 x 1=10)
	Equipment used for cutting forage crop is known	as
	Threshers are classified asand	
	material	•
	The cutting mechanisms present in harvesters are	
	An equipment which cuts the crop and put t	he cut crop in a line is known as
	A machine which does the operations of crop c	utting and binding simultaneously is
	known as	
	Combine harvesters are generally classified as	type andtype
	depending on their locomotive system	
	The tools used for coconut harvesting is	
	The mechanism which converts the rotary motion	
	is	
9	is the equipment used for gathering	and packing of paddy straw
	Shaker harvester is an equipment used for harvesti	ngcrops
II W	e short notes on any FIVE questions	$(5 \times 2=10)$
1.	Vrite short note on working principle of reaper bind	der
2.	Vrite about various types of threshers and beaters	
3.	Brief the adjustments of shear type cutting mechanism	
4.	Write shortly on forage choppers	
5.	ist the various tools and gadgets used for harvestin	g fruit crops
6.	Iow a cotton picker functions	
7.	escribe the working of a potato digger	·
III W	te short essay on any FIVE questions	(5 x 4=20)
1.	xplain the principles of crop cutting mechanisms	
2.	Explain the adjustments of shear and impact type cutting mechanism	

- 3. Explain the working principle of maize harvester
- 4. Explain the different types of threshing mechanisms used in grain threshers
- 5. Explain the functions carried out by grain combine with the help of a flow diagram
- 6. Explain the various machineries used for tea and rubber crop
- 7. Explain the principles of work place layout

IV Write essay on any ONE

 $(1 \times 10 = 10)$

- 1. Explain the various types of sugarcane harvesters along with their working principle
- 2. Explain the various root crop harvesting equipments