Q.P. Code: 18AG0710			R18
Reg. No:			
SIDDHARTH INSTITUTE OF ENGINEERING & TECHNOLOGY:: PUTTUR			
(AUTONOMOUS) B.Tech III Vear II Semester Bernhar E			
B.Tech III Year II Semester Regular Examinations July FARM MACHINERY & EQUIPMENT - II	-2021		
Time: 2 hours (Agricultural Engineering)			
Time: 3 hours	24		
PART-A	Max.	Mar	ks: 60
(Answer all the Questions 5 x $2 = 10$ Marks)			
a Denne reaper & reaper binder.		т.	
b Classify the combine losses		L1	
 c List out the different types of root harvesting equipment based on source d List out the different types of action string equipment based on source 	e of nower	L2 L1	
and another types of conon strinners	e or power	L1 L1	
e Define threshing efficiency and cleaning efficiency.		L1	$2\mathbf{M}$
PART-B		1.1	2111
(Answer all Five Units 5 x $10 = 50$ Marks) UNIT-I			
2 a What is harvesting? Explain principle of cutting of a crop.		L1	4M
b Illustrate about self-propelled reaper binder.		L1 L2	41 VI 6M
3 a Explain about different components of a single state			UIVI
		L1	5M
about antoient methods of windfowing.		L1	5M
4 a i) How many bectares per day of 10 b and 10 b			
incounted per uay of 10 h can be cut by a combine with t	cutter bar.	L6	6M
to is raining at + Kill/II.		20	0111
ii) Calculate the total time required to harvest 2.5 ha of grass by means	s of a 2 m		
mower being operated at 4 km/h. Take field efficiency of mower as 80%.b What are the advantage and disadvantage of combine?			
		L1	4M
 5 a Explain working principle of self-propelled type combine with neat sketch b Discuss about functional 			
b Discuss about functional components of corn harvester.		L1	5M
		L6	5M
6 a Explain in briefly about snappers & picker-sheller.			
b Explain the factors affecting performance of corn pickers.		L6	5M
OR		L1	5M
 7 a What are fruit harvesters? Explain about different method of fruit harvest b Explain briefly about any two for it. 			
b Explain briefly about any two fruit harvesters.		L1	6M
UNIT-IV		L1	4M
8 a Explain cotton picker with chain belt spindle arrangement.			
b What are the advantages of strippers over pickers.		L2	6M
OP		L5	4M
$9 \cdot a$ Distinguish between brush type and finger type strippers	_		
b What are the factors affecting the performance of cotton pickers.		L 4	5M
UNIT-V	Ι	_1	5M
10 a Distinguish between olpad thresher and power thresher.			
b Explain about multi crop thresher.			5M
OR	Ι	_1	5M

OR 11 What are the different types of threshing cylinders? Explain them with neat sketch. L4 10M