SIDDHARTH INSTITUTE OF ENGINEERING & TECHNOLOGY:: PUTTUR
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QUESTION BANK (DESCRIPTIVE)

Subject with Code : FM-II(18AG0710) **Course & Branch**: B.Tech – AGE

Year & Sem: III-B.Tech & II-Sem **Regulation:** R18

		PART-A		
1	a	Define harvesting?	[L1][CO1]	[2M]
	b	List out the various parts of mower	[L1][CO1]	[2M]
	c	Classify the different types of mower	[L2][CO1]	[2M]
	d	What are the functions of ledger plate and wear plate?	[L1][CO1]	[2M]
	e	Define reaper & reaper binder?	[L1][CO1]	[2M]
		PART-B		
2		**Explain in briefly about manual harvesting using sickle**	[L5][CO1]	[10M]
3		**Explain in briefly about cutter bar of mower** with neat sketch	[L1][CO1]	[10M]
4		Explain about different components of reciprocating mower	[L1][CO1]	[10M]
5		Discuss about **animal drawn reaper**	[L6][CO1]	[10M]
6		Distinguish between **registration and alignment?**	[L4][CO1]	[10M]
7		Illustrate about **self-propelled reaper binder**	[L2][CO1]	[10M]
8		**What are the different types of impact cutter? Explain them**	[L1][CO1]	[10M]
9		How do use discuss about different methods of windrowing?	[L1][CO1]	[10M]
10		What is harvesting? Explain principle of cutting of a crop	[L1][CO1]	[10M]

UNIT-II

FORAGE HARVESTING EQUIPMENT, HARVESTER

PART-A				
1	a	Define Threshing mechanism?	[L1][CO2]	[2M]
	b	List out the different types of field forage harvesters	[L1][CO2]	[2M]
	c	Classify the combine losses	[L2][CO2]	[2M]
	d	What are the functions of combine?	[L1][CO2]	[2M]
	e	Define Cleaning mechanism and Separating mechanism?	[L1][CO2]	[2M]
PART-B				
2		Explain in briefly about different types of farm machinery testing systems? Explain them	[L5][CO2]	[10M]
3		a) **How many hectares** per day of 10 h can be cut by a combine with 4 m cutter bar, when it is running at 4 km/h. b) **Calculate the total time** required to harvest 2.5 ha of grass by means of a 2 m mower being operated at 4 km/h. Take field efficiency of mower as 80%.	[L6][CO2]	[10M]
4		Explain working principle of self-propelled type combine with neat sketch	[L1][CO2]	[10M]
5		Discuss about functional components of corn harvester?	[L6][CO2]	[10M]
6		Classify the corn harvester and explain them	[L4][CO2]	[10M]
7		Illustrate about **combine losses**	[L2][CO2]	[10M]
8		Where do you use combine harvester? Explain in briefly about development history of combine	[L1][CO2]	[10M]
9		Distinguish between pull type and self-propelled type combine? Explain about them	[L4][CO2]	[10M]
10		**What are the advantage and disadvantage** of combine?	[L1][CO2]	[10M]

UNIT-III

PART-A				
1	a	Define direct harvesting equipment?	[L1][CO3]	[2M]
	b	List out the different types of root harvesting equipment based on source of power	[L1][CO3]	[2M]
	c	Classify the root harvesting equipment?	[L2][CO3]	[2M]
	d	What are the methods of fruit harvester?	[L1][CO3]	[2M]
	e	Define groundnut digger shaker?	[L1][CO3]	[2M]
PART-B				
2		Explain in briefly about different methods of fruit harvesting	[L5][CO3]	[10M]
3		Explain in briefly about snappers & picker-sheller	[L6][CO3]	[10M]
4		Explain in briefly about manual fruit harvesters with panicle for mango	[L1][CO3]	[10M]
5		Discuss about two row potato harvester?	[L6][CO3]	[10M]
6		Distinguish between **groundnut digger shaker and potato harvester**?	[L4][CO3]	[10M]
7		Illustrate about one row potato harvester?	[L2][CO3]	[10M]
8		Why do you use fruit harvesters? Explain about different method of fruit harvesting	[L1][CO3]	[10M]
9		Distinguish between manual fruit harvester (blade type) and manual fruit harvesters (hold on and twist type)	[L4][CO3]	[10M]
10		What are the factors affect the performance of corn pickers?	[L1][CO3]	[10M]

UNIT-IV

PART-A				
1	a	Define cotton stripper?	[L1][CO4]	[2M]
	b	List out the different types of cotton strippers	[L1][CO4]	[2M]
	c	Classify the cotton pickers?	[L2][CO4]	[2M]
	d	What are the factor affecting mechanical harvesting of cotton?	[L1][CO4]	[2M]
	e	What are the functions of sugar cane harvesters?	[L1][CO4]	[2M]
PART-B				
2		Explain in briefly about advantages of strippers over pickers and principles of operation of stripper	[L5][CO4]	[10M]
3		Explain in briefly about cotton pickers with drum type spindle arrangement with neat sketch	[L6][CO4]	[10M]
4		What are the various parts of Corn picker? Explain in briefly about spindles	[L1][CO4]	[10M]
5		Discuss about different types of stripper?	[L6][CO4]	[10M]
6		Distinguish between brush type and finger type strippers	[L4][CO4]	[10M]
7		Illustrate about cotton picker with chain belt spindle arrangement with neat sketch?	[L2][CO4]	[10M]
8		Where do you use picker? Explain about different types of cotton pickers	[L1][CO4]	[10M]
9		Distinguish between spindle moistening and removal of cotton from spindles	[L4][CO4]	[10M]
10		What are the factors affecting the performance of cotton pickers	[L1][CO4]	[10M]

UNIT-V

THRESHING

		PART-A		
1	a	Define threshing?	[L1][CO5]	[2M]
	b	List out the different types of cylinder	[L1][CO5]	[2M]
	c	Classify the power thresher?	[L2][CO5]	[2M]
	d	What are the types of testing systems?	[L1][CO5]	[2M]
	e	Define threshing efficiency and cleaning efficiency?	[L1][CO5]	[2M]
		PART-B		
2		**Explain about calculation for testing of thresher**	[L5][CO5]	[10M]
3		Explain about principle of threshing and different methods of threshing	[L6][CO5]	[10M]
4		Explain about **different types of power thresher**	[L1][CO5]	[10M]
5		Describe about different parts of power thresher with a neat sketch?	[L6][CO5]	[10M]
6		What are the different types of threshing cylinders? Explain them with neat sketch	[L4][CO5]	[10M]
7		Write short notes on i) Cleaning unit ii) Seed damage iii) Aspirator & Blower	[L2][CO5]	[10M]
8		a. How do you make cylinder adjustment of thresher? b. Mention what are the factors affect threshing efficiency?	[L1][CO5]	[10M]
9		**Distinguish between olpad thresher and power** thresher	[L4][CO5]	[10M]
10		What is power thresher? Explain about multi crop thresher	[L1][CO5]	[10M]

Prepared by: **Dr. SHASHIKUMAR**