Course Code: 19AG0706 **R19**

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

Subject with Code : FM-II(19AG0706) **Course & Branch**: B.Tech – AGE

Year & Sem: III-B.Tech & I-Sem **Regulation:** R19

UNIT –I
MOWERS & FORAGE HARVESTING EQUIPMENT

1	Define harvesting? Distinguish between mower and reaper	[L1][CO1]	[12M]
2	Explain in briefly about manual harvesting using sickle	[L5][CO1]	[12M]
3	Explain in briefly about cutter bar of mower with neat sketch	[L1][CO1]	[12M]
4	Explain about different components of reciprocating mower	[L1][CO1]	[12M]
5	Discuss about animal drawn reaper	[L6][CO1]	[12M]
6	Distinguish between registration and alignment?	[L4][CO1]	[12M]
7	Illustrate about self-propelled reaper binder	[L2][CO1]	[12M]
8	What are the different types of impact cutter? Explain them	[L1][CO1]	[12M]
9	How do use discuss about different methods of windrowing?	[L1][CO1]	[12M]
10	What is harvesting? Explain principle of cutting of a crop	[L1][CO1]	[12M]

UNIT-II

HARVESTING - HARVESTER

1	Define threshing mechanism? Explain combine losses	[L1][CO2]	[12M]
2	Explain in briefly about different types of farm machinery testing systems? Explain them	[L5][CO2]	[12M]
3	a) How many hectares per day of 12 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]	[12M]
4	Explain working principle of self-propelled type combine with neat sketch	[L1][CO2]	[12M]
5	Discuss about functional components of corn harvester?	[L6][CO2]	[12M]
6	Classify the corn harvester and explain them	[L4][CO2]	[12M]
7	Illustrate about combine losses	[L2][CO2]	[12M]
8	Where do you use combine harvester? Explain in briefly about development history of combine	[L1][CO2]	[12M]
9	Distinguish between pull type and self-propelled type combine? Explain about them	[L4][CO2]	[12M]
10	What are the advantage and disadvantage of combine?	[L1][CO2]	[12M]

UNIT-III

ROOT CROP HARVESTING EQUIPMENT

1	Define direct harvesting equipment? Explain fruit harvester	[L1][CO3]	[12M]
2	Explain in briefly about different methods of fruit harvesting	[L5][CO3]	[12M]
3	Explain in briefly about snappers & picker-sheller	[L6][CO3]	[12M]
4	Explain in briefly about manual fruit harvesters with panicle for mango	[L1][CO3]	[12M]
5	Discuss about two row potato harvester?	[L6][CO3]	[12M]
6	Distinguish between groundnut digger shaker and potato harvester?	[L4][CO3]	[12M]
7	Illustrate about one row potato harvester?	[L2][CO3]	[12M]
8	Why do you use fruit harvesters? Explain about different method of fruit harvesting	[L1][CO3]	[12M]
9	Distinguish between manual fruit harvester (blade type) and manual fruit harvesters (hold on and twist type)	[L4][CO3]	[12M]
10	What are the factors affect the performance of corn pickers?	[L1][CO3]	[12M]

UNIT-IV

COTTON HARVESTING EQUIPMENT

1	Define cotton stripper? What are the factors affecting mechanical harvesting of cotton?	[L1][CO4]	[12M]
2	Explain in briefly about advantages of strippers over pickers and principles of operation of stripper	[L5][CO4]	[12M]
3	Explain in briefly about cotton pickers with drum type spindle arrangement with neat sketch	[L6][CO4]	[12M]
4	What are the various parts of Corn picker? Explain in briefly about spindles	[L1][CO4]	[12M]
5	Discuss about different types of stripper?	[L6][CO4]	[12M]
6	Distinguish between brush type and finger type strippers	[L4][CO4]	[12M]
7	Illustrate about cotton picker with chain belt spindle arrangement with neat sketch?	[L2][CO4]	[12M]
8	Where do you use picker? Explain about different types of cotton pickers	[L1][CO4]	[12M]
9	Distinguish between spindle moistening and removal of cotton from spindles	[L4][CO4]	[12M]
10	What are the factors affecting the performance of cotton pickers	[L1][CO4]	[12M]

UNIT-V

THRESHING

1	Define threshing? Explain about different types of cylinder	[L1][CO5]	[12M]
2	Explain about calculation for testing of thresher	[L5][CO5]	[12M]
3	Explain about principle of threshing and different methods of threshing	[L6][CO5]	[12M]
4	Explain about different types of power thresher	[L1][CO5]	[12M]
5	Describe about different parts of power thresher with a neat sketch?	[L6][CO5]	[12M]
6	What are the different types of threshing cylinders? Explain them with neat sketch	[L4][CO5]	[12M]
7	Write short notes on i) Cleaning unit ii) Seed damage iii) Aspirator & Blower	[L2][CO5]	[12M]
8	a. How do you make cylinder adjustment of thresher? b. Explain the factors affect threshing efficiency?	[L1][CO5] [L1][CO5]	[06M] [06M]
9	Distinguish between olpad thresher and power thresher	[L4][CO5]	[12M]
10	What is power thresher? Explain about multi crop thresher	[L1][CO5]	[12M]

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