R20

Reg. No:

SIDDHARTH INSTITUTE OF ENGINEERING & TECHNOLOGY:: PUTTUR
(AUTONOMOUS)
B.Tech III Year I Semester Regular Examinations March-2023
FARM MACHINERY & EQUIPMENT -II
(Agricultural Engineering)

Time: 3 hours
Max. Marks: 60

(Answer all Five Units 5 x 12 = 60 Marks)

UNIT-I

1	a	Define harvesting? Distinguish between mower and reaper.	CO1	L1	6M
	b	Explain in briefly about manual harvesting using sickle.	CO1	L2	6M

OR

2	a	Explain in briefly about cutter bar of mower with neat sketch.	CO1	L2	6M
	b	Explain about different components of reciprocating mower.	CO1	L2	6M

UNIT-II

3	Classify the corn harvester and explain them. How many hectares per day of 12h can be cut by a combine with 4 m cutter bar, when it is running at 4 km/h. Consider the field efficiency as 80%.	CO2	L4	12 M

OR

4	Define threshing mechanism. Draw a neat sketch of combine and explain combine losses.	CO2	L1	12M

UNIT-III

5	What are the factors affect the performance of corn pickers?	CO3	L1	12M

OR

6	a	Discuss about two row potato harvester.	CO3	L6	6M
	b	Explain in briefly about manual fruit harvesters with panicle for mango.	CO3	L2	6M

UNIT-IV

7	Explain in briefly about cotton pickers with drum type spindle arrangement with neat sketch.	CO4	L2	12M

OR

8	Define cotton stripper. What are the factors affecting mechanical harvesting of cotton?	CO4	L1	12M

UNIT-V

9	Define threshing. Explain about different types of cylinders with neat sketch.	CO5	L1	12M

OR

10	Write short notes on i) Cleaning unit ii) Seed damage iii) Aspirator & Blower iv) Adjustment of thresher	CO5	L1	12M

*** END ***

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UNIT-I

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b	Explain in brief about annual harvesting using sickle.	CO1 L2	6M

OR

2. a	Explain in briefly about cutter bar of mower with neat sketch.	CO1 L2	6M
b	Explain about different components of reciprocating mower.	CO1 L2	6M

UNIT-II

3.	Classify the corn harvester and explain them. How many hectares per day of 12h can be cut by a combine with 4 m cutter bar, when it is running at 4 km/h. Consider the field efficiency as 80%.	CO2 L4	12M

OR

4.	Define threshing mechanism. Draw a neat sketch of combine and explain combine.	CO2 L1	12M

UNIT-III

5.	What are the factors affect the performance of cotton picker?	CO3 L1	12M

OR

6. a	Discuss about two row potato harvester.	CO2 L5	6M
b	Explain in briefly about manual fruit harvesters with panicle for mango.	CO3 L2	6M

UNIT-IV

7.	Explain in briefly about cotton pickers with drum type spindle arrangement with neat sketch.	CO4 L2	12M

OR

8.	Define cotton stripper. What are the factors affecting mechanical harvesting of cotton?	CO4 L1	12M

UNIT-V

9.	Define threshing. Explain about different types of cylinders with neat sketch.	CO5 L1	12M

OR

10.	Write short notes on:	CO5 L1	12M

i) Cleaning unit   ii) Seed damage   iii) Separator & Blower

iv) Adjustment of threshing