

SIDDHARTH INSTITUTE OF ENGINEERING & TECHNOLOGY:: PUTTUR
(AUTONOMOUS)
B.Tech III Year I Semester Regular & Supplementary Examinations February-2024
FARM MACHINERY & EQUIPMENT - II
(Agricultural Engineering)

Time: 3 Hours**Max. Marks: 60**

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

UNIT-I

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|---|---|--|-----|----|----|
| 1 | a | What are the different types of impact cutter? Explain them. | CO1 | L1 | 6M |
| | b | Illustrate about self-propelled reaper binder. | CO1 | L2 | 6M |

OR

- | | | | | | |
|---|---|---|-----|----|----|
| 2 | a | What is harvesting? Explain principle of cutting of a crop. | CO1 | L1 | 6M |
| | b | Explain about different components of reciprocating mower. | CO1 | L2 | 6M |

UNIT-II

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|---|---|--|-----|----|----|
| 3 | a | What are the advantages and disadvantages of combine? | CO2 | L1 | 6M |
| | b | How many hectares per day of 12 h can be harvested by a combine with 4 m cutter bar, when it is running at 4 km/h. | CO2 | L3 | 6M |

OR

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|---|---|---|-----|----|----|
| 4 | a | Classify the corn harvesters and explain them | CO2 | L4 | 6M |
| | b | Explain in briefly about different types of farm machinery testing systems? | CO2 | L2 | 6M |

UNIT-III

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|---|---|---|-----|----|----|
| 5 | a | Explain in briefly about different methods of fruit harvesting. | CO3 | L2 | 6M |
| | b | Discuss about two row potato harvester. | CO3 | L6 | 6M |

OR

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|---|---|--|-----|----|----|
| 6 | a | Illustrate about one row potato harvester. | CO3 | L2 | 6M |
| | b | Explain in briefly about different types of manual fruit harvesters. | CO3 | L2 | 6M |

UNIT-IV

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|---|---|--|-----|----|----|
| 7 | a | Discuss about different types of stripper. | CO4 | L6 | 6M |
| | b | Illustrate about cotton picker with chain belt spindle arrangement with neat sketch. | CO4 | L2 | 6M |

OR

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|---|---|--|-----|----|----|
| 8 | a | Explain in briefly about cotton pickers with drum type spindle arrangement with neat sketch. | CO4 | L2 | 6M |
| | b | What are the factors affecting the performance of cotton pickers. | CO4 | L1 | 6M |

UNIT-V

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|---|---|---|-----|----|----|
| 9 | a | Define threshing? Explain about different types of cylinders. | CO5 | L1 | 6M |
| | b | Explain about different types of power thresher. | CO5 | L2 | 6M |

OR

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|----|---|--|-----|----|----|
| 10 | a | Explain about principle of threshing and different methods of threshing. | CO5 | L2 | 6M |
| | b | Describe about different parts of power thresher with a neat sketch. | CO5 | L6 | 6M |

*** END ***

