

Code No: R1641352

R16

Set No. 1

IV B.Tech I Semester Regular Examinations, October/November - 2019

FARM MACHINERY AND EQUIPMENT – II

(Agricultural Engineering)

Time: 3 hours

Max. Marks: 70

Question paper consists of Part-A and Part-B

Answer ALL sub questions from Part-A

Answer any FOUR questions from Part-B

PART–A (14 Marks)

1. a) Write about guard, ledger plate and wearing plates in cutter bar assembly. [3]
b) What is vertical conveyor reaper explain? [3]
c) How the threshing is done by animal? [2]
d) Write four advantages of combine. [2]
e) Write note on special sugar cane wagon. [2]
f) List any four fruit harvesting tools. [2]

PART–B (4x14 = 56 Marks)

2. a) What is Alignment and registration of cutter bar? Explain with neat diagram. [7]
b) Explain integral rear mounted mower with neat diagram? Also write precautions in operating mowers. [7]
3. a) How the reaper cum binder is different from vertical conveyor reaper explain? [7]
b) Enumerate flail forage harvester. [7]
4. a) Explain the working principles of Olpad thresher with line diagram. [7]
b) Explain different types of cleaning units in thresher and its importance. [7]
5. a) List out different mechanisms available in combine? Explain any four of the mechanisms. [7]
b) How root crop harvesting mechanism are different from mover harvesting mechanism? [7]
6. a) Why the cotton harvesting equipment is essential? Discuss about cotton strippers and its types. [7]
b) Explain sugar cane harvesting process with flow diagram in self propelled sugar cane harvester. [7]
7. a) Discuss horticultural tools and gadgets. [7]
b) What is testing of farm machinery? Enumerate type of testing system practiced in India. [7]

