

Code No: RT41352

R13**Set No. 1**

IV B.Tech I Semester Regular/Supplementary Examinations, Oct/Nov - 2018

FARM MACHINERY AND EQUIPMENTS - II

(Agriculture 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 THREE questions from Part-B*

PART-A (22 Marks)

1. a) Discuss about adjustments of shear and impact cutting mechanism. [3]
- b) How reaper binder is different from vertical conveyor reaper explain? [3]
- c) Enumerate threshing methods. [4]
- d) What are the advantages and disadvantages of combines over threshing? [4]
- e) Write about types of cotton strippers. [4]
- f) What is hold on twist type harvesters? [4]

PART-B (3x16 = 48 Marks)

2. a) Explain about impact type cutters and flail mowers. [8]
- b) What are the care and maintenance in case of reapers? [8]
3. a) Explain the types of threshing cylinders and its application. [8]
- b) Explain silo forage blowers and silo un loaders. [8]
4. a) Explain winnower and winnowing fan with neat diagram. [8]
- b) Explain how Groundnut thresher works explaining use of each component. [8]
5. a) Explain how root crop harvesting equipment is different from crop harvester. [8]
- b) Explain Groundnut digger shaker and its adjustments. [8]
6. a) Explain the process involved in sugarcane harvesters from cutting to transport. [8]
- b) Write factors affecting performance of cotton picker. [8]
7. a) Explain proto type machine testing for quality marketing. [8]
- b) Write brief report on horticultural tools and gadgets. [8]