



KERALA AGRICULTURAL UNIVERSITY
B.Sc. (Hons.) C&B 2017 and previous admissions
IV Semester Final Examination- July-2019

Engg.2201

Farm Power and Equipment (1+1)

Marks: 50
Time: 2 hours

I Fill in the blanks (10x1=10)

- 1 A strong man can develop maximum power ofW.
- 2 P.T.O is the abbreviation of.....
- 3 is a tillage system in which only isolated bands of soil is tilled.
- 4 is a method of planting in which row to row and plant to plant distance is uniform.
- 5 The machine combining tillage and sowing operations, thereby saving the time and energy is called.....

Define

- 6 Duster.
- 7 Mower.
- 8 Power Thresher.
- 9 Fertigation.
- 10 Vertical disc plough.

II Write short notes on ANY FIVE of the following (5x2=10)

- 1 Differentiate Casting and Gathering with neat sketch.
- 2 Differentiate offset and tandem disc harrows with neat sketches.
- 3 What is a seed drill and what are the functions of a seed drill?
- 4 Define centrifugal pump with a neat sketch.
- 5 Briefly explain the components of drip irrigation.
- 6 Give the classification of sprayers based on volume of application.
- 7 Differentiate trench silo and tower silo.

III Answer ANY FIVE of the following (5x4=20)

- 1 Briefly explain different micro irrigation techniques used inside a green house.
- 2 What is a power tiller? Describe its various components.
- 3 Explain the components of a knapsack power mistblower with neat sketch.
- 4 Briefly explain the working of reciprocating pump with neat sketch.
- 5 Explain the working of a 4-row walk behind paddy transplanter.
- 6 What is depreciation? List different fixed and operational costs.
- 7 Sketch and explain the working of a conoweeder for paddy.

IV Write an essay on ANY ONE of the following (1x10=10)

- 1 Explain the different farm power sources and its merits and demerits.
- 2 Explain the working of a power thresher with neat sketch.
