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## KERALA AGRICULTURAL UNIVERSITY B.Sc. (Hons.) Ag. 2016 Admission

## III Semester Final Examination-February-2018

## Farm Machinery and Power (1+1)

Marks: 50 Time: 2 hours

	Fill in the blanks (10x1=10)
1	Thermal efficiency of diesel engine varies from
2	The diameter of an engine cylinder is called
3	The device designed to control the speed of an engine within the specified limits is a
4	A cutter bar of a tractor operated mower normally makes the cutting strokes per minute
	aboutstrokes per minute.
5	The high volume sprayer may be in the range oflitre / ha.
	State True or False
6	Spark plug is present in diesel engine.
7	Splash system is one of the cooling system used in IC engines.
.8	Solar energy is one of the renewable energy used in agriculture.
9	Mould board plough is one of the primary tillage implement.
10	Thresher is used to harvest the grains.
	White Chart notes on ANY PINE of the following
1	Write Short notes on ANY FIVE of the following (5x2=10)
1	What are the main objectives of tillage?
2	What do you mean by petrol engine and diesel engine? What are the functions of carburetor?
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, 4 5	What are the main functions of sprayer? What are the functions of seed drill?
6	What are the purpose of cooling system of IC engines?
7	Draw a neat sketch of MB plough and show the parts.
,	Draw a neat sketch of Wib plough and show the parts.
	Answer ANY FIVE of the following (5x4=20)
1	Briefly explain the working of two stroke IC engine
2	Explain the working of manually operated Knapsack sprayer
3	What are the functions of cultivator?
4	Briefly explain the working of splash lubrication system.
5	Describe the process of calibration of seed drill.
6	Explain the working components of disc harrow.
7	Briefly explain the functions of differential unit in a tractor.
	Write an essay on ANY ONE of the following (1x10=10)
1	Briefly explain the sources of farm power in India.
2	Ulustrate the various components of combine harvester