KERALA AGRICULTURAL UNIVERSITY

B.Tech (Agrl.Engg.) 2012 & Previous Admissions
One Time Re-examination- January-2017

Cat. No: Fpme.2209.	
Title: Farm Power (2+1)	Marks: 50.00
I Fill up the blanks	Time: 2 hours
1. Conversion of heat to mechanical energy is associated with	(10x1=10)
	law o
2. Scale of Cetane number represents the blends of true	
3. Excess black smoke in the exhaust is the indication of	
7. The purpose of the starting motor is to	
5. Clearance of a tractor is the distance from ground to the lowest part of the One possible firing order for a six cylinder engine.	
6. One possible firing order for a six cylinder engine	ne
7. In a four stroke cycle engine cam shaft rotates at the speed of contract of the speed of th	
8. The purpose of carburetor is to the speed of c	crank shaft.
9. Frictional horse power is the difference between	
10. Commercial specification of tractor power is based on	
22 Write Short Hotes off any Flyk	
1. Name the types of piston rings and write their functions	(5x2=10)
2. Classify different types of internal combustion engines	
3. Draw and label the valve timing diagram of a 4-stroke cycle engine. 4. Why CL engines are assument in the stroke cycle engine.	
4. Why CI engines are comparatively of higher size?	
3. Write the purpose of an engine governor	
6. What is the function of a radiator in cooling system?	
7. Write notes on tractor starting motor	
III Write short answers on any FIVE	
1. Differentiate between CI and SI Engines	(5x4=20)
2. Explain the valve operating mechanism with a figure	
3. Explain thermosiphon cooling system	
4. Explain briefly the properties of coolant	
5. With diagram, explain the functions of timing gear	
6. Briefly explain different types of air cleaning systems	
/. Write the functions of – cam shaft, push rod and timing gears	
1v write essay on any ONE	(4 40 10)
1. Forced circulation cooling system.	(1x10=10)
2. Working principle of a centrifugal governor.	
