

Reg. No. :

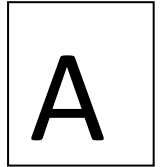
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SNS COLLEGE OF TECHNOLOGY
(An Autonomous Institution, Affiliated to Anna University)
Coimbatore - 641 035



Internal Assessment -I
Academic Year 2022-2023 (Odd)
Fifth Semester
Agriculture Engineering
19AGB 301 – Farm Tractors
(REGULATION 2019)



TIME: 1 1/2 HOURS

MAXIMUM MARKS: 50

ANSWER ALL QUESTIONS
PART A — (5 x 2 = 10 Marks)

	CO	BL	
1. Classify the engine, based on the type of cylinder arrangement	CO1	REM	2
2. Define bore and stroke	CO1	APP	2
3. Define suction stroke	CO1	UND	2
4. What is the length of a piston	CO2	REM	2
5. List out the purpose of cooling system	CO2	APP	2

PART B — (2 x 13 = 26 Marks)

6. (a) Summarize the various classifications of Tractors	CO1	REM	13
(OR)			
(b) Explain the working principle of a four stroke diesel engine	CO1	UND	13
7. (a) Discuss the working of a lubrication system in a tractor	CO2	APP	13
(OR)			
(b) List the advantages and disadvantages of a transmission system	CO2	APP	13

PART C — (1 x 14 = 14 Marks)

8. (a) What is the purpose of a fuel system in a tractor? How this system process helps in the movement of tractor	CO1	APP	14
(OR)			
(b) What are all the features of cylinder, piston, connecting rod and crankshaft?	CO2	ANA	14

Blooms Taxonomy Abbreviations: REM-Remembrance, UND-Understanding, APP- Apply, ANA-Analyze, EVA-Evaluate, CRE-Create

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B

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ANSWER ALL QUESTIONS

PART A — (5 x 2 = 10 Marks)

	CO	BL	
1. State the possible firing orders of a 4 stroke cylinder engine	CO1	REM	2
2. List the objectives of farm mechanization	CO1	APP	2
3. Write the components of transmission system	CO1	UND	2
4. Define power stroke	CO2	REM	2
5. Define indicated power mathematically	CO2	APP	2

PART B — (2 x 13 = 26 Marks)

6. (a)	List out the development and history of engine	CO1	REM	13
	(OR)			
(b)	Draw the diagram of an IC Engine and explain its components	CO1	UND	13
7. (a)	Discuss the working of a transmission system in a tractor	CO2	APP	13
	(OR)			
(b)	List out the advantages and disadvantages of a cooling system	CO2	APP	13

PART C — (1 x 14 = 14 Marks)

8. (a)	Explain the concepts of valve timing diagram and firing order.	CO1	APP	14
	(OR)			
(b)	Discuss the working of a Steering system in a tractor	CO2	ANA	14

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