

FOR EVALUATOR'S USE ONLY

Sub. Code : **60**

Optional Paper

Agricultural Engineering : Paper-II

Time : 3 Hours / Maximum Marks : 200 / Total Pages : 32

Evaluation Table													(For Evaluator's Use Only)	
PART-A				PART-B				PART-C				Grand Total		
QN	E-1	E-2	AG	QN	E-1	E-2	AG	QN	E-1	E-2	AG	PART-A		
1				21				33				PART-B		
2				22				34				PART-C		
3				23				35				Total		
4				24				36				(-) Marks		
5				25				37				Final Total		
6				26				38				Marks in Words		
7				27				39				Remarks of Evaluator/Chief Evaluator		
8			28											
9				29										
10				30										
11				31										
12				32										
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18												Remarks of Scrutiniser		
19														
20														
Total														
Evalu ator's Sign														

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PART – A**Marks : 40**

Note : Attempt all the **twenty** questions. Each question carries **2** marks. Answer should not exceed **15** words.

1 How do you define the Indicated Horse Power of an Engine?

2 What is a coupling?

3 How do you calculate traction efficiency?

4 Define tilt angle in a disc plough.

5 What is a psychrometric chart?

6 Briefly explain the Dalton's law of partial pressure of gases.



- 7 An electric motor has an efficiency of 90%. What would be input power required if it gives an output of 360 watts?

- 8 What do you understand by a solar tracker?

- 9 Define the Young's Modulus.

10 Why seasoning of wood is necessary?

11 What is a pyrometer? Is it same as a pyranometer?

12 Define compression ratio and give its range of values for petrol and diesel engines.



13 What is the function of a solar cell?

14 What is an aero-generator?

15 Why curing is required in concrete works?

16 Define drying efficiency.

17 Define depreciation and write the method used to calculate depreciation in cost analysis of farm machinery.

18 Why is parboiling considered advantageous in rice processing?



19 What is a silo?

20 What do you understand by power factor?



- 23 What width of boom is required on a sprayer operating at 10 km/hr to permit spraying of 18 ha field in 8 working hours if 25% of this time is lost in different ways during spraying?

- 24 What do you understand by surface hardening of metals? What are annealing, hardening and tempering in heat treatment to obtain desirable physical properties in the metal?

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