

377

Register No.:

April 2024

*Time - Three hours*  
*(Maximum Marks: 100)*

- [N.B.]**
1. Answer all questions under Part-A. Each question carries 3 marks.
  2. Answer all the questions either (A) or (B) in Part-B. Each question carries 14 marks.]

**PART - A**

1. Specify the classification of tractor based on structural design.
2. Mention the function of Power Take Off Shaft in a tractor.
3. Mention the functions of mould board plough.
4. Write about one way ploughing.
5. Mention the different parts of thresher with their functions.
6. Mention the components of drill.
7. Write a note on Knapsack type duster.
8. How do you calculate manure application rates?
9. How do you check the tire pressure of a Tractor?
10. List out any three lights which have to be checked before starting the Tractor.

[Turn over.....

PART - B

11. (a) Explain the ten commandments of tractor safety.  
(or)  
(b) Explain the power transmission system of a tractor with a suitable sketch.
12. (a) Explain the various types of ploughs with a suitable sketch.  
(or)  
(b) Explain the construction and working of three point hitch with a neat sketch.
13. (a) (i) Explain the maintenance activities to be followed for the paddy thresher. (7)  
(ii) Explain the construction and working of disc harrows with a neat sketch. (7)  
(or)  
(b) (i) List out the role of seed drill. Describe it. (7)  
(ii) Discuss about seed metering unit. (7)
14. (a) With a neat sketch describe the hand operated sprayer and mention the salient features of it.  
(or)  
(b) Explain the construction and working of Haymaking machinery with a neat sketch.
15. (a) Explain the major over hauling of Tractor engine.  
(or)  
(b) (i) Explain about the maintenance approach of the nutrient management for the fertilizer unit. (7)  
(ii) How to Carry out repair and maintenance of seed metering mechanisms. (7)

-----