

Code : 15AT54A

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V Semester Diploma Examination, Nov./Dec. 2018

## FARM TRACTORS & CONSTRUCTION EQUIPMENTS

Time : 3 Hours ]

[ Max. Marks : 100

**Instruction :** Answer any **six** questions from Part – A and any **seven** full questions from Part – B.

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### PART – A

1. Write the detailed classification of Tractors. 5
2. Explain the method of adjusting track width with a sketch. 5
3. Sketch and label the parts of DISC plough. 5
4. Sketch and label the parts of scraper. 5
5. Write the classification of earth moving equipments. 5
6. Write the applications of Dozers and Scrapers. 5
7. Write the advantages and disadvantages of tyred vehicles over tracked vehicles. 5
8. Write a short note on linkage type power steering. 5
9. Sketch and label the parts of Derrick crane. 5

**PART – B**

10. Explain construction and working of draft control mechanism with a neat sketch.
11. Write the necessity and working of independent drive PTO with a neat sketch.
12. Explain the construction and working of Beater type thresher with a neat sketch.
13. Write the purpose and construction of mould board plough with a neat sketch.
14. Explain the construction and working of motor grader with a neat sketch.
15. Explain the functions of under carriage components of a crawler tractor with a neat sketch.
16. Write the working of air spring suspension with layout.
17. Explain the working of planetary steering system with a neat sketch.
18. Write the construction and working of caliper type Disc Brake with a sketch.
19. Explain the construction and working of Mobile Crane with a neat sketch.

