

SECTION-D

Note: Long answer type questions. Attempt any two questions out of three questions. (2x8=16)

Q.23 Explain the constructional detail and working principle of Hydraulic brake system. (CO3)

Q.24 Describe the power transmission system of tractor. (CO2)

Q.25 a) What is differential and differential lock? (CO1)
b) Describe the power steering system of tractor. (CO5)

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Roll No.

5th Sem./ Agriculture

Subject : Farm Tractor

Time : 3 Hrs.

M.M. : 60

SECTION-A

Note: Multiple choice questions. All questions are compulsory (6x1=6)

Q.1 The device to indicate the lubricating oil pressure in the system (CO1)

- a) Battery indicator b) Temperature gauge
c) Light Switch d) Oil pressure gauge

Q.2 A device to enable two wheels, driven from a single shaft to rotate at different speeds of tractor. (CO2)

- a) Differential b) Drawbar
c) Hydraulic d) None of the above

Q.3 The brake system that works on the principle of Pascal's Law (CO3)

- a) Disc Brake b) Hydraulic Brake
c) Mechanical Brake d) None of these

- Q.4 The working depth of any implement can be controlled by
- a) Positing control b) Draft control
c) Mixed control d) None of these
- Q.5 It generated electrical energy to power the tractor's system and recharge the battery (CO6)
- a) Starter motor b) Voltage regulator
c) Alternator d) Fuse
- Q.6 The angular movement of front wheels is governed by the operator through (CO5)
- a) Fuel system b) Cooling system
c) Steering system d) Gear system

SECTION-B

Note: Objective/ Completion type questions. All questions are compulsory. (6x1=6)

- Q.7 What is the need of a clutch? (CO2)
- Q.8 What is the use of decompression lever? (CO1)
- Q.9 What is the use of starter switch? (CO6)
- Q.10 Write two precautions for hydraulic system. (CO4)
- Q.11 Define caster angle. (CO5)

- Q.12 Define rolling resistance. (CO3)

SECTION-C

Note: Short answer type questions. Attempt any eight questions out of ten questions. (8x4=32)

- Q.13 Describe duel plate clutch system used in tractor. (CO2)
- Q.14 How would you maintain battery? (CO6)
- Q.15 Describe the working of constant mesh type gear box. (CO2)
- Q.16 Write a short note on periodical maintenance of tractors. (CO7)
- Q.17 What are different methods of wheel ballasting? (CO3)
- Q.18 Describe the working principle of hydraulic system. (CO4)
- Q.19 What are different types of tests used for testing a tractor? (CO7)
- Q.20 Enlist various controls and gauges on tractors.(CO1)
- Q.21 List various components of electrical system along with their functions (CO6)
- Q.22 What is the function on tyre? Also describe the causes of tyre wear. (CO3)