

TRACTOR DRIVING Sample Questions

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| T | F | 1. | Calcium chloride solution is the most commonly used type of weighting material for tractor tires. |
| T | F | 2. | The recommended practice is 75% fill or fill to valve level with the valve at the bottom of the tire when adding a solution of CaCl. |
| T | F | 3. | Calcium Chloride is heavier than water. |
| T | F | 4. | A gap of .303 inches is recommended for the spark plug on a 4020 diesel John Deere tractor. |
| T | F | 5. | A good operator need not be a mechanic but he knows when it is time to get the help of a mechanic. |
| T | F | 6. | The tractor operator's manual gives instructions on servicing and maintenance, including daily service and adjustments. |
| T | F | 7. | Checking and servicing the air cleaner on your tractor is one of the most important service jobs for you to do. |
| T | F | 8. | The common carburetor uses about 7,000 to 12,000 gallons of air for every gallon of fuel. |
| T | F | 9. | If dirt is not filtered out by the air cleaner it passes directly through the intake manifold into the engine cylinders. |
| T | F | 10. | The two types of air cleaners are (1) oil bath and (2) water bath. |
| T | F | 11. | An oil type air cleaner causes the air to pass through the oil, which traps the dirt particles. |
| T | F | 12. | Air is cleaned in a dry-type cleaner by passing it through a special pleated paper element which filters out small particles and holds them on the outer surface of the filter element. |
| T | F | 13. | An oil bath air cleaner can be mounted horizontally or vertically. |
| T | F | 14. | Gasoline should be used to clean air oil-bath air cleaner. |
| T | F | 15. | The dust unloader is a rubber duck-bill arrangement that is held shut by suction while the engine is running. |
| T | F | 16. | Overheating causes oil to oxidize. |

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| T | F | 17. | Oil in the crankcase keeps working parts hot. |
| T | F | 18. | Oil forms a seal between the piston rings and cylinder walls. |
| T | F | 19. | Oil cushions the pounding action on piston pins and bearings. |
| T | F | 20. | Overfilling the crankcase with oil does not cause any problem. |
| T | F | 21. | Approximately 40% of engine heat is given off through the cylinder walls. |
| T | F | 22. | A thermostat measures the amount of water in cooling system. |
| T | F | 23. | A pressure-relief valve is located in the radiator cap. |
| T | F | 24. | A vacuum valve allows air to reenter the radiator as it cools. |
| T | F | 25. | Refill radiator to within about 2 inches of the radiator neck. |
| T | F | 26. | Dirty water clogs the cooling system and makes it less effective. |
| T | F | 27. | Wipe the end of a grease fitting with a clean cloth before greasing. |
| T | F | 28. | Water is more of a problem in diesel fuel than it is in gasoline. |
| T | F | 29. | It is important for you to be prepared to operate a tractor safely. |
| T | F | 30. | Wear shoes that are comfortable when operating a tractor, such as tennis shoes, thongs, etc. |
| T | F | 31. | Watching for the parts that need attention and caring for them at the time they need it, is part of the difference between a tractor driver and a competent operator. |
| T | F | 32. | Adding weight to rear wheels of a two-wheel drive tractor reduces traction for pulling. |
| T | F | 33. | Adding weight to front wheels keeps them from rising when driving up a slope. |
| T | F | 34. | Wash pressure gauge after testing tires containing calcium chloride solution. |
| T | F | 35. | Provide ventilation in a closed building before starting your tractor. |
| T | F | 36. | Carburetor-type engines give off carbon monoxide, which can cause sickness or death if confined in a building. |
| T | F | 37. | The 4 strokes of a 4 cycle engine in order are: Intake, Power, Compression, Exhaust. |
| T | F | 38. | Tractor speed control levers are usually mounted on the steering column or instrument panel. |

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| T | F | 39. | Some diesel tractors have an electric heating element for starting in cold weather. |
| T | F | 40. | When traveling on the highway, unlock the latch connecting the right and left brake pedals. |
| T | F | 41. | The majority of farm tractors are designed to haul more than one person. |
| T | F | 42. | Some tractors are equipped with a range level to provide faster or slower speed selection with your regular gear shift. |
| T | F | 43. | Even at relatively slow speeds, running over a hidden object can cause a tractor to tip sideways. |
| T | F | 44. | After the clutch is engaged, completely remove your foot from it. |
| T | F | 45. | Hooking to the axle when towing can cause a tractor to overturn backwards. |
| T | F | 46. | When pulling equipment with PTO shaft and draw bar, it is better to have a short draw bar rather than a long draw bar. |
| T | F | 47. | Sway locks or stabilizer bars eliminate swinging action of the hitch. |
| T | F | 48. | Attach the right lower link of a 3-point hitch first, because it has no adjustment. |
| T | F | 49. | Standards provide that two shafts shall be splined differently so it is impossible to connect a 540 rpm implement to a 1000 rpm PTO shaft, or vice versa. |
| T | F | 50. | A remote cylinder is positioned under the tractor hood. |
| T | F | 51. | A remote cylinder is used to raise the lower trailing equipment such as plows, disc harrows and the cutter bars of combines and mowers. |
| T | F | 52. | A dust cap should be covering the PTO shaft when using PTO equipment. |
| T | F | 53. | Some tractors are equipped with an automatic draft control, which is used with equipment such as a plow or disc harrow. |
| T | F | 54. | Some implements provide for two tongue positions – one for transport and the other for field operation. |
| T | F | 55. | You get greatest efficiency from a carburetor engine on a light load when the speed-control lever is completely open. |
| T | F | 56. | A diesel engine may start running backwards if it is about to stall under a heavy load. |

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| T | F | 57. | It is generally agreed when slippage becomes greater than 30% during normal field operations you should either add weight to the rear wheels or reduce the tractor load. |
| T | F | 58. | $\frac{(\text{Distance to}) A - (\text{Distance to}) B}{(\text{Distance to}) A} \times 100 = \text{percent of slips}$ |
| T | F | 59. | On very steep slopes, if you have no trailing equipment, back the tractor up the hill for greatest safety. |
| T | F | 60. | Weights on the front of your tractor help offset implements that add weight to the rear. |
| T | F | 61. | Wide wheel spacing increases safety on slopes. |
| T | F | 62. | When starting up a hill with a load, quick engagement of the clutch gives you more power for climbing the hill. |
| T | F | 63. | When in gear, the engine does not help brake the tractor on slopes. |
| T | F | 64. | A tractor equipped with a roll bar helps protect the operator in case of overturning sideways. |
| T | F | 65. | The normal shear angle of soil without vegetation is about 45 degrees for ditches six feet or less in depth. |
| T | F | 66. | You are taking no risk of overturning backwards by driving forward out of a mud hole or ditch. |
| T | F | 67. | Riding the tractor draw bar is a dangerous practice. |
| T | F | 68. | Backing a tractor out of a mud hole or ditch is safe practice. |
| T | F | 69. | Turning too sharply may cause a lug on the rear wheel to lift an implement and lodge it on the tire. |
| T | F | 70. | In diesel engines, knock is caused by the fuel igniting too rapidly. |
| T | F | 71. | Ignition quality is a term to express the immediate burning of the diesel fuel. |
| T | F | 72. | If the oil-pressure indicator suddenly drops to zero, or points to the red area, check on it when you finish for the day. |
| T | F | 73. | Diesel tractors are even more dependent on high temperature for proper operation than carburetor type tractors. |
| T | F | 74. | The odometer shows the rate of battery charge or discharge. |

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| T | F | 75. | Farm tractors and other farm vehicles, road maintenance and construction equipment, and horse-drawn vehicles designed for a speed of no more than 25 MPH, have been classified as slow moving vehicles. |
| T | F | 76. | Use standard hand turn signals for tractor operation as when operating an automobile. |
| T | F | 77. | Diesel fuel and water mix rather readily and the water is slow to settle out, much slower than with gasoline. |
| T | F | 78. | Smoking while refueling is not recommended for those that wish to continue living. |
| T | F | 79. | The paper element air cleaner is more efficient than oil bath air cleaners. |
| T | F | 80. | Solvent rather than gasoline should be used for cleaning parts. |
| T | F | 81. | Use 10 weight oil in summer and 50 weight oil in winter. |
| T | F | 82. | A good oil for diesel tractors is rated ML. |
| T | F | 83. | To prevent damage to the injectors on a diesel tractor, drain water from the fuel filters if so equipped. |
| T | F | 84. | Check the octane rating when buying diesel fuel. |
| T | F | 85. | Diesel engines should be thoroughly warmed up before putting under heavy load. |
| T | F | 86. | A gasoline engine has a higher compression ratio than a diesel engine. |
| T | F | 87. | L – P gas is commonly known as Propane. |
| T | F | 88. | It is a safe practice to remove the radiator cap while the engine is hot. |
| T | F | 89. | To prevent condensation from forming, keep the fuel tank full. |
| T | F | 90. | To avoid danger of fuel vapor igniting, wait 4 to 5 minutes for the tractor to cool before refueling. |
| T | F | 91. | It is generally accepted as a safe practice to ride on implements being towed by a tractor. |
| T | F | 92. | A diesel tractor that has been under heavy load should be allowed to run a few minutes at an idle before shutting off. |
| T | F | 93. | Category I hitches are 80 horse power and over. |

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| T | F | 94. | As you double ground speed the forces which cause overturning increase four times. |
| T | F | 95. | Engaging the differential lock assists in turning the tractor. |
| T | F | 96. | A SMV sign is a red and white rectangular sign. |
| T | F | 97. | Adjust belts when moving and under power. |
| T | F | 98. | It is recommended to give a tractor under heavy load a shot of ether for extra power. |
| T | F | 99. | Side wall or radial cracks are caused by under-inflation or by heavy axle loads. |
| T | F | 100. | An above-ground fuel storage tank will lose less from evaporation than an underground fuel tank. |
| T | F | 101. | Clean hydraulic coupling ends before connecting. |
| T | F | 102. | Release hydraulic pressure before disconnecting the hydraulic systems. |
| T | F | 103. | Hooking above the draw bar when pulling a load is not considered dangerous. |
| T | F | 104. | When operating a tractor with a front loader, carrying the load at full height will make it more stable. |
| T | F | 105. | Riding the clutch helps control the tractor speed. |
| T | F | 106. | When operating on a steep down slope shift the tractor to a low gear, this will help control speed. |
| T | F | 107. | By-passing the neutral safety switch will allow you to start the tractor in gear. |
| T | F | 108. | When bearings on safety shields on PTO shafts wear out, remove the shield and leave it off. |
| T | F | 109. | When red lights on dash come on it is okay to operate tractor. |
| T | F | 110. | On non synchro-meshed transmissions it is okay to shift while tractor is moving. |
| T | F | 111. | On diesel tractors, after changing fuel filters the fuel system normally needs to be bled. |
| T | F | 112. | When checking fluid levels both oil and water it is better to check immediately after operation of tractor. |

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| T | F | 113. You should always use glow plugs when starting diesel engine if you are going to use ether. |
| T | F | 114. If your tractor is equipped with ROPS it isn't necessary to use seat belts. |
| T | F | 115. On some tractors when operating PTO equipment the momentum of the PTO can cause tractor to move forward even when clutch is disengaged. |
| T | F | 116. ROPS manufactured on the farm may not meet the safety specifications established by the manufacturer. |
| T | F | 117. When using mounted spray tanks on tractors it is better to mount them on the rear rather than the front. |
| T | F | 118. The adjustable links on the three point hitch have very little use and are a waste of money. |
| T | F | 119. When the tractor is not in use and it has a three point implement mounted on it, the equipment should be lowered to the ground. |
| T | F | 120. When you have removed safety shields on equipment for repairs leave them off so repairs can be made easier next time. |
| T | F | 121. When moving a combine down the highway with 16 foot header, flashing warning lamps should be mounted on the widest part of machine. |
| T | F | 122. Only one safety chain is required when towing a piece of equipment down the highway. |

