1. I have been servicing tractors for ____________ years.

2. My experience in the electrical area is (1) none, (2) very little, (3) average, (4) considerable.

3. The ELEC-TRAK E-15 is equivalent to a (1) 10 hp, (2) 12 hp, (3) 15 hp, (4) 14 hp gasoline tractor.

4. The speed control has (1) 5, (2) 6, (3) 3, (4) 7, forward speeds.

5. The speed control has (1) 2, (2) 4, (3) 3, reverse speeds.

6. The (1) 1A, (2) 2A, (3) L, contactor must be energized first in order to get power to drive motor.

7. The FW relay function is to (1) allow forward speed, (2) allow reverse speeds, (3) allow resistors on card #3 to be put in series with drive motor field.

8. If you have improper speeds conditions above throttle lever position number 3, you should first check (1) reverse relay, (2) 1A contactor, (3) FW relay and card #3.

9. When the speed/control lever is immediately pushed all the way forward, there is time delay (1) in positions two and three but not in last four positions, (2) no time delay, (3) time delay first position only.

10. If there is no time delay in the speed/control, the cause will be found (1) on card #3, (2) FW relay, (3) on card #1, (4) there should be no delay.

11. The reverse relay is energized by (1) the L contactor, (2) the reverse switch on speed/control lever, (3) by circuit on card #3.
12. The reverse relay changes the rotation on the drive motor by (1) reversing the armature polarity, (2) reversing the field polarity, (3) combination of 1 and 2.

13. When working on the tractor you should be sure the main disconnect is disengaged to (1) prevent shocks from high voltages, (2) prevent electrical arcs that may cause damage to the tractor or burns to the individual.

14. When checking resistance or continuity with a volt-ohm meter, there should be (1) power on the circuit, (2) power must be off, (3) does not matter if power on or off.

15. If the tractor power use meter is continually operating in the red range when the tractor is operating on hills, and the transaxle is in D1, you should (1) shift to D2, (2) shift to L or LL, (3) leave in D1.

16. If the charger is humming and the fuel meter does not move to the right, you should first check (1) 110-volt outlet, (2) CB-1 breaker on drive motor, (3) CB-2 breaker on upper control panel - push red button, (4) call the factory.

17. If the customer calls and advised he is continually blowing his 110-volt house fuse or breaker, you should advise him **first** to be sure (1) the main power tractor disconnect is engaged, (2) does not have other appliances drawing too much current on same circuit as plug for ELEC-TRAK charger, (3) he has turned charger on, (4) reset CB-2 the red button on upper control panel.
18. The brake switch should shut off the drive motor when the brake pedal is pushed (1) 1/4, (2) 1/2, (3) 1/3, (4) 9/10, the way down.

19. Provided the battery plates are covered with water, then you should add water (1) before charging, (2) after charging, (3) each month regardless of level, (4) after each use.

20. Never add (1) pure water, (2) rain water, (3) low mineral water, (4) "Battery life additive", to the batteries.

21. If the lights will not operate, the first thing you should check is (1) power disconnect engaged, (2) fuse for lights, (3) light bulbs, (4) light switch.

22. All seat springs should be checked to be sure they are the light spring. The light seat spring is (1) about 3/4" in diameter, (2) shorter than the heavy seat spring, (3) longer and about 1/2" diameter while the old heavy spring is 3/4" diameter, (4) colored black.

23. When you suspect a defective #1 card, you should check with a new card by first (1) remove present #1 card from control panel, (2) leave old card in place and transfer wires to new #1 card, (3) call factory for help, (4) check voltage across card #3.

24. With the main disconnect engaged and there is no power to the 36-volt tool outlet, you should first (1) check outlet fuse, (2) push red button to CB-2 breaker on upper control panel, (3) wait for breaker to reset, (4) check light fuse.
25. The mower motor and drive motor breakers are reset (1) manually, (2) automatically once the motor cools down, (3) these motors do not have breakers.

26. All mower motors must have epoxy and R.T.V. applied except (1) those motors that already have epoxy 1/4 of the way around the motor, (2) those motors that have three small drain holes in bottom and also have pin in top of motor underneath cover, (3) those motors produced after June 1, 1970, (4) those motors with two large drain holes near bearing.

27. Before delivering the ELEC-TRAK to customer, you should be sure tire pressure is (1) 20 psi, (2) adjusted as recommended in operators manual, (3) 30 - 40 psi as shipped from factory, (4) not necessary to check tire pressure.

28. When charging a tractor, you plug cord into 110-volts, the dial is then set at the 1 - 2 year mark for a new unit and then be sure (1) CB-1 drive motor breaker is closed, (2) to add water to batteries, (3) power disconnect is engaged, (4) control fuse is not blown.

29. Resistors \( R_1 \) & \( R_2 \) in drive motor armature circuit are located (1) on card #3, (2) on card #1, (3) in lower control panel area, (4) in front of the tractor next to battery charger and timer.

30. All return to neutral and time delay circuits are located (1) in lower control panel area, (2) on card #3, (3) on card #1 (4) on throttle assembly.
31. If a resistor on card #3 has an open circuit or a wire is pulled off this card, then the drive motor above speed/control position four will (1) operate normally, (2) could overspeed or have same speed in two different speed/control positions, (3) blow breaker CB-2 in upper control panel, (4) burn the contacts on the reversing relay.

32. If the power pack is fully charged and will only mow normal height grass for about one hour, you should first check (1) charger, (2) defective motor, (3) for bad battery in power pack, (4) assume this is normal operation.

33. If the FW relay does not actuate (open the contacts), the drive motor speed in the speed/control positions 4 - 7 (1) will be normal, (2) will not change and will remain same as speed in position #3, (3) will be very fast, (4) will be much slower than speed in position #3.

34. Over (1) 10%, (2) 40%, (3) 60%, (4) 80%, of the hotline calls came about because the dealers did not take the time to explain to the new owner how the ELEC-TRAK was suppose to operate.

35. If the drive motor overspeeds in the first speed/control position, a possible cause would be (1) FW relay not operating, (2) a bad reverse relay, (3) bad 1A contactor, (4) drive motor field wires have polarity reversed.