Student Name: _______________________
Date: ______________________________

2012 Tractor Operation Exam
Kansas Hazardous Occupation Training

Instructor: A passing score of 75% is recommended for the written exam.

Instructions: Place your name and today’s date at the top of the first page. The first section of the exam contains 30 multiple choice questions. Answer the questions by placing the letter for the correct answer on the line to the left of the question. The second section consists of 20 True or False Questions. To complete Section 2, circle T for True or F for False on each question.

SECTION 1 – MULTIPLE CHOICE

_____ 1. The purpose of Hazardous Occupation Training and the Tractor Operator’s Certification Program is to:
   A. Certify that the individual has completed the training required to operate a tractor and/or farm machinery.
   B. Guarantee that teenagers can find a summer job.
   C. Guarantee that teenagers get high paying summer jobs.

_____ 2. Safe practices on the farm are the responsibility of whom?
   A. The farm owner
   B. Farm employees
   C. Everyone involved in the farming operation

_____ 3. Most farm machinery accidents involve:
   A. Tractors
   B. Big round balers
   C. Gravity-flow wagons

_____ 4. The best reference for safe tractor operation instruction is:
   A. Any safety textbook
   B. The tractor’s operator’s manual
   C. No safety reference is needed to safely operate a tractor

_____ 5. This symbol means:
   A. Caution
   B. Expletive deleted
   C. Speed up
6. According to the textbook, most tractor accidents per hour of operation involve:
   A. Young people between the ages of 10 and 14
   B. People over age 65
   C. People between the ages of 30 and 50

7. You’ve been hired to drive a tractor to rake hay and you have never operated the tractor you will have to drive. What is the best way for you to familiarize yourself with the machine?
   A. Just get on the tractor and go to work
   B. Spend a day riding on the tractor with someone else
   C. Carefully study the location of controls and what they do before doing some practice driving in a large open, flat area

8. The tractor seat should be adjusted so that the operator can:
   A. Reach the clutch
   B. Reach all controls
   C. Reach the ignition switch

9. A seat belt should be worn when operating a tractor:
   A. Never
   B. At all times
   C. Only when the tractor is equipped with a rollover protective structure (ROPS)

10. Regular, preventive tractor maintenance:
    A. Reduces tractor operating costs
    B. Reduces tractor and machine failure
    C. Increases the service life of the tractor
    D. Reduces potential safety hazards
    E. All of the above

11. One-third of all farm injuries are caused by:
    A. PTO entanglements
    B. Falls
    C. Motor vehicles

12. Engines should never be run in a closed building because of the likelihood of:
    A. Carbon monoxide poisoning
    B. Hydrogen sulfide poisoning
    C. H₂O poisoning

13. Personal protective equipment (or PPE) does not prevent accidents, but is designed to prevent or reduce personal injury. Examples of PPE include:
    A. Safety goggles, dust masks, ear plugs
    B. Steel-toed shoes, gloves, gas masks
    C. Lipstick, nail polish, hand cream
    D. Both A and B
14. A person’s reaction time may change due to:
   A. Aging
   B. Health
   C. Fatigue
   D. All of the above

15. A tractor is in its most stable position when it is:
   A. Operating with the center of gravity at its lowest position above ground
   B. Operating with the center of gravity at its highest position above ground
   C. Center of gravity does not affect the stability of a tractor

16. A daily tractor maintenance and safety check is:
   A. A waste of time
   B. A wise safety decision and good preventive measure
   C. Too expensive
   D. A and C are both correct

17. Examples of manmade hazards include:
   A. Poor housekeeping
   B. Excessive speed
   C. Incorrect hitching of loads to a tractor
   D. Thunder storms
   E. A, B, and C are all correct
   F. F. A, B, C, and D are all correct

18. Your employer has asked you to run an errand for him. Your assignment is to
   purchase a fire extinguisher for his tractor. What type of fire extinguisher will you
   buy?
   A. Type A – for ordinary combustibles like paper
   B. Type B – for flammable liquids
   C. Type C – for electrical equipment

19. If you are plowing and a light or gauge on the tractor’s instrument panel indicates low
   oil pressure, you should:
   A. Speed up and finish the plowing quickly
   B. Slow the engine speed and drive the tractor to get help
   C. Immediately add more oil to the tractor
   D. Shut off the tractor and walk or call for help

20. When one vehicle is towing another vehicle or implement on a roadway the drawbar
   or other connection must be strong enough to pull the weight of the towed implement
   (vehicle). In addition, there must also be a _______________ fastened at the
   drawbar connection site:
   A. Top link
   B. Safety chain
   C. Hydraulic coupler
21. You are driving a tractor on a paved highway at 17 miles per hour. When you turn around to look at the implement you are pulling, you inadvertently steer the tractor to the right. The tractor goes off the edge of the pavement and starts down a steep ditch. What should you do?
   A. Jerk the steering wheel to the left to get back up on the pavement
   B. Hit the brakes and stop as quickly as possible
   C. Slow the engine down and steer toward the bottom of the ditch

22. When the speed of a tractor is doubled, the danger of tipping the tractor has been found to increase:
   A. Two times
   B. Four times
   C. Eight times

23. How many seconds does it take a tractor to overturn to the rear?
   A. 1.5 seconds
   B. 5 seconds
   C. 20 seconds

24. When a tractor is in operation, additional forces besides gravity contribute to the tendency to overturn. These forces are:
   A. Magnetism, elasticity, and electricity
   B. Friction, buoyancy, and centrifugal force
   C. Centrifugal force, rear axle torque, and leverage

25. Correct tractor tire inflation insures:
   A. Proper traction
   B. Proper flotation
   C. Proper load support
   D. All of the above

26. Before refueling a tractor, you should:
   A. Shut off the engine
   B. Allow the hot engine to cool
   C. Both A and B are correct

27. Vapors on top of the liquid in the cells of a battery are dangerous because they:
   A. Are an explosive mixture of hydrogen and oxygen
   B. Will eat holes in cloth
   C. Are not harmful and should be of no concern to the operator
28. A car traveling at 55 miles per hour on dry pavement requires how many feet of reaction time and stopping distance?
   A. 500 feet  
   B. 226 feet  
   C. 1,000 feet

29. A tractor has the right-of-way over cars:
   A. Never  
   B. Always  
   C. Only as another motor vehicle would

30. This universal hand signal means:
   A. Start the engine  
   B. Stop the engine  
   C. Decrease speed

SECTION 2 – TRUE or FALSE

T F 31. Many farm accidents involve misuse of agricultural machinery and tractors.

T F 32. Stay off hills or slopes too steep for tractor operation.

T F 33. If a tractor has a cab, then there is no need to wear a seat belt.

T F 34. Extra riders are no problem when operating farm tractors or machinery. In fact, drivers are encouraged to take extra riders so there are more eyes looking for hazards.

T F 35. Never run the tractor engine in a closed building without adequate ventilation because the exhaust fumes are dangerous.

T F 36. Tractors are designed for highway travel.

T F 37. A slow moving vehicle (SMV) emblem is required on implements of husbandry traveling 25 miles per hour or less. If the implement is traveling over 25 miles per hour, the emblem should be covered.

T F 38. Hydraulically raised implements should always be secured in the raised position by the transport lock when being moved on roads.
T  F  39. Never work under mounted or raised equipment without making sure the 
equipment cannot drop.

T  F  40. Never start a PTO-driven machine without first making sure that no one is on the 
shaft or close to it.

T  F  41. Leaking hydraulic oil can be accidentally injected into your flesh and will cause 
serious injury.

T  F  42. After completing a tractor safety course, you will be able to safely clean out, 
adjust, or lubricate a machine while it is running.

T  F  43. It is best to warm up a tractor before placing it under a full load.

T  F  44. Inflating a tire can be dangerous, so stand to one side.

T  F  45. 3-point-hitch mounted tools cannot accidentally be dropped on workers.

T  F  46. Tractors can be maneuvered safely at road speeds.

T  F  47. Coolant, fuel, and engine oil levels should be checked daily.

T  F  48. The training certificate you receive for completing Hazardous Occupations 
Training is the same as a drivers license.

T  F  49. When using mounted or integral implements, tractor wheel spacing should be set 
as wide as possible.

T  F  50. Most accidents on the farm are caused by the failure of an individual to follow 
basic safety rules.