

A33 – Agricultural tractor

No.	Question
1	a) What determines the minimum distances that any part of plant and machinery has to be kept from over head electricity lines and b) explain why a distance should be kept.
2	When working in a confined area or space, name THREE hazards that can occur.
3	Why should a linch pin/safety pin be fitted to the drawbar pin after connecting a trailer?
4	Where should the agricultural tractor's Operator's Manual be kept and why?
5	What are the possible outcomes of facing prosecution for not complying with legislation and regulations?
6	a) Name THREE purposes of the raised lugs on tyres and b) what can happen to an agricultural tractor if the lugs are severely worn?
7	How are agricultural tractors classified?
8	What is a possible consequence of using a tyre with a deep cut in the sidewall?
9	Where required, in what situation does a hard hat NOT need to be worn when operating an agricultural tractor?
10	Why should an agricultural tractor be re-fuelled at the end of the day?
11	State TWO requirements of using a stop block or earth bank (berm) at a trench discharging point.
12	What THREE main duties of the Health and Safety at Work Act must employees follow?
13	For construction purposes, if the tractor is being travelled on the public highway, the Road Traffic Act applies. a) What type of licence and which class should the operator hold and b) what is the minimum age allowed?
14	The operator has been asked to drive the machine onto a transporter/trailer. a) Who is responsible for the loading operations and b) state FOUR actions to be considered by the operator before loading commences?
15	Using the Operator's Manual, state the cold-starting procedure for the machine. Note: The Operator's Manual for the machine being used for the test MUST be available for reference by the candidate.
16	a) What is the minimum distance allowed near open trenches when travelling with an agricultural tractor and b) explain why.
17	If setting up to work in a pedestrianised area, state THREE factors that need to be taken into account.

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18	When travelling on wet clay, what effect does this have on the agricultural tractor?
19	Who should determine the maximum load that should be placed into the trailer?
20	Why should the driven speed of a PTO-driven implement be checked before attaching to the tractor?
21	Name THREE ways in which an operator can minimise their impact upon the environment whilst using the machine.
22	Why should hydraulic pipe connections be cleaned before re-connecting to the implement and/or tractor?
23	If a load has to be tipped on a slope, what may happen if the load is tipped downhill?
24	Using the Operator's Manual, state the figure for tyres' operating pressure. Note: The Operator's Manual for the machine being used for the test MUST be available for reference by the candidate.
25	On trailer operations, give TWO reasons why the tractor operator should have an understanding of the type of spoil being transported.
26	How can a qualification or card benefit a plant operator?
27	When parking the machine at the end of the shift, name THREE places where the tractor should NOT be parked.
28	On tractors equipped with powershift transmissions, manufacturers state that the parking brake is to be fully applied when parking, and not just leaving the machine in gear. Explain why.
29	What is the definition of, or how can a hazard be described?
30	What is the purpose of a risk assessment?
31	a) What is the purpose of a Method Statement and b) what is required of the operator?
32	Why are plant operators generally regarded as 'safety-critical' workers?
33	Operators should lower the trailer fully before driving away. Give TWO possible consequences if this is not carried out.
34	Describe one application when the hand throttle can safely be used.
35	What is the meaning of this hand signal (being demonstrated by the Tester)?
36	What speeds may PTO shafts normally be driven at?
37	a) Why should the body of the trailer be raised slowly/carefully when discharging wet or sticky material and b) what would be a consequence if this was not done?
38	Give THREE possible reasons why agricultural tractors should not stray off the designated travel routes.

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39	An operator has to travel the tractor on the public highway, for which The Road Traffic Act applies. List SIX requirements that must be followed.
40	List SIX typical subject areas that should be covered in a site induction.
41	Why must the seat belt be worn at all times, even with the cab door closed?
42	Name FOUR different types or levels of disciplinary actions or sanctions that can be applied (by employers and judicial bodies) to operators of plant who do not comply with, or follow legislation and regulations.
43	Which parts of the shaft must PTO shaft guarding cover?
44	If checking the oil level using a dipstick, why must gloves be worn?
45	Before leaving the cab for a rest break, after parking and switching off the machine, what final action must be carried out?
46	When tipping a load, the centre of gravity of the trailer changes. a) How does this affect the trailer and b) state TWO actions to avoid accidents?
47	a) When should 4-wheel drive not be selected and b) explain why?
48	What is the purpose of a ROPS cab?
49	Larger agricultural tractors tend to have a turbo-charged engine. a) What is the normal procedure before switching off the engine after working and b) what happens if the procedure is not followed?
50	Apart from the operator, who else may need to use the machine's Operator's Manual?
51	Before uncoupling a trailed implement, what should be ensured?
52	What is the function of an 'automatic pick-up hitch'?
53	What problems and hazards can soft ground cause to an agricultural tractor?
54	The operator is asked to tip material from a trailer into a trench. State FIVE different requirements that must be considered or implemented before tipping commences.
55	What does the Health and Safety at Work Act require employers to do with regards specifically to plant?
56	If the operator has to top-up the transmission oil, state TWO precautions to ensure cleanliness of the system.
57	If applicable, whenever possible, who should decide the positioning of the tractor and trailer when being loaded?

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58	During work, the engine starts to overheat. Explain the danger if someone tries to remove the radiator or expansion tank cap.
59	Name THREE ways that a plant operator can contribute in ensuring repeat business with the client or principal contractor.
60	The operator has to use a new type of implement that they are unfamiliar with. What do Regulations (i.e. PUWER 98) and other guidance require the operator to have?
61	If a higher operating speed (1000 rpm) is selected for an implement designed to run at the lower speed (540 rpm), what may occur during operation?
62	What may happen if turning too tight whilst driving a PTO-trailed implement?