

## EXECUTIVE AGENCY "ROAD TRANSPORT ADMINISTRATION"

### EXAM QUESTIONS FOR CANDIDATES FOR ACQUISITION OF DRIVING LICENSE FROM CATEGORY C

Topic 2: The cooling system

Points	Number	Question and answers
1	1/1	<p><b>The cooling system of an internal combustion engine is designed to assure:</b></p> <ul style="list-style-type: none"><li><input type="checkbox"/> cooling of the whole vehicle</li><li><input checked="" type="checkbox"/> transferring the heat from the hottest components of the engine and maintaining a constant temperature mode</li><li><input type="checkbox"/> only the cooling of the internal combustion engine</li></ul>
1	2/1	<p><b>The following coolants are used in a liquid cooling system:</b></p> <ul style="list-style-type: none"><li><input type="checkbox"/> brake fluid</li><li><input checked="" type="checkbox"/> water</li><li><input checked="" type="checkbox"/> low freezing temperature liquids (anti-freeze liquids)</li></ul>
1	3/1	<p><b>The function of the radiator of the cooling system is:</b></p> <ul style="list-style-type: none"><li><input type="checkbox"/> to forcefully circulate the coolant</li><li><input checked="" type="checkbox"/> to soak the heat from the coolant circulating in the water jacket</li><li><input checked="" type="checkbox"/> to emit heat in the environment</li></ul>
1	4/1	<p><b>The function of the coolant pump in the cooling system is:</b></p> <ul style="list-style-type: none"><li><input checked="" type="checkbox"/> to forcefully circulate the coolant in the cooling system</li><li><input type="checkbox"/> to forcefully circulate the oil used to lubricate the components of the engine, subjected to friction</li></ul>
1	5/1	<p><b>The function of the cooling system fan is:</b></p> <ul style="list-style-type: none"><li><input type="checkbox"/> to improve the heating of the engine by reducing the quantity of air flow passing through the radiator</li><li><input checked="" type="checkbox"/> to increase the intensity of the cooling of the radiator</li><li><input type="checkbox"/> to increase the intensity of cooling by increasing the pressure of the air</li></ul>
1	6/1	<p><b>The thermostat is a component of:</b></p> <ul style="list-style-type: none"><li><input type="checkbox"/> the ignition system</li><li><input checked="" type="checkbox"/> the cooling system</li><li><input type="checkbox"/> the set of control and measuring instruments</li></ul>

1	7/1	<p><b>The function of the thermostat is:</b></p> <p><input type="checkbox"/> to measure the temperature of the coolant</p> <p><input type="checkbox"/> to measure the temperature of the oil</p> <p><input checked="" type="checkbox"/> to maintain automatically the temperature of the coolant within the specified limits</p>
1	9/1	<p><b>The wear of the water pump seals:</b></p> <p><input type="checkbox"/> does not affect the normal operation of the cooling system</p> <p><input type="checkbox"/> causes mixing of fuel with coolant</p> <p><input checked="" type="checkbox"/> causes leakage of coolant</p>
1	10/1	<p><b>A damage to the radiator causes:</b></p> <p><input type="checkbox"/> mixing of fuel and coolant</p> <p><input checked="" type="checkbox"/> leakage of coolant</p> <p><input type="checkbox"/> does not affect the normal operation of the cooling system</p>
1	11/1	<p><b>Coolant leak may be caused by:</b></p> <p><input checked="" type="checkbox"/> a tear of the elastic couplings of the cooling system</p> <p><input checked="" type="checkbox"/> loosening of the elements for mounting and assembly</p> <p><input checked="" type="checkbox"/> damage to the radiator</p> <p><input type="checkbox"/> a change in oil pressure</p>
1	12/1	<p><b>The presence of air bubbles in the coolant at the radiator filler indicates:</b></p> <p><input type="checkbox"/> the presence of oil in the cooling system</p> <p><input checked="" type="checkbox"/> defective seal between the block and the engine head</p> <p><input type="checkbox"/> normal operation of the cooling system</p>
1	13/1	<p><b>The level of the coolant in the cooling system must be checked:</b></p> <p><input checked="" type="checkbox"/> when the engine is cold</p> <p><input type="checkbox"/> when the engine is warmed up</p>
1	14/1	<p><b>For a hermetic cooling system the level of the coolant in the expansion tank must be:</b></p> <p><input type="checkbox"/> above the sign indicating the upper limit</p> <p><input checked="" type="checkbox"/> between the signs indicating the upper and the lower limit</p>

1	16/1	<p><b>If the air channels of the radiator are plugged:</b></p> <p><input type="checkbox"/> the radiator is always replaced by a new one</p> <p><input checked="" type="checkbox"/> the radiator is blown through by compressed air</p> <p><input type="checkbox"/> the radiator is washed with coolant</p>
1	17/1	<p><b>The accumulation of scale on the inner surface of the water jacket:</b></p> <p><input type="checkbox"/> causes excessive cooling of the engine</p> <p><input type="checkbox"/> does not affect the normal temperature regime of the engine</p> <p><input checked="" type="checkbox"/> affects to the normal temperature regime of the engine</p>
1	18/1	<p><b>The early opening of the thermostat:</b></p> <p><input type="checkbox"/> causes overheating of the engine</p> <p><input checked="" type="checkbox"/> causes overcooling of the engine</p> <p><input checked="" type="checkbox"/> results in a slower warming up of the engine</p> <p><input type="checkbox"/> does not affect the normal temperature regime of the engine</p>
1	19/1	<p><b>The late opening of the thermostat:</b></p> <p><input type="checkbox"/> does not affect the normal temperature regime of the engine</p> <p><input checked="" type="checkbox"/> causes overheating of the engine</p> <p><input type="checkbox"/> causes overcooling of the engine</p>
1	24/1	<p><b>The smearing by oil of the belt driving the fan causes:</b></p> <p><input checked="" type="checkbox"/> slippage of the belt and affects to the cooling</p> <p><input type="checkbox"/> increases the oil consumption of the engine</p> <p><input type="checkbox"/> reduces the wear of the bearings of the water pump</p>
1	25/1	<p><b>It is not recommended, under winter conditions of operating the vehicle, to use water because:</b></p> <p><input type="checkbox"/> water evaporates when boiling</p> <p><input checked="" type="checkbox"/> water freezes at negative temperatures</p> <p><input type="checkbox"/> water causes corrosion</p>
1	26/1	<p><b>The water pump of the cooling system is driven by:</b></p> <p><input type="checkbox"/> the generator</p> <p><input type="checkbox"/> the starter</p> <p><input checked="" type="checkbox"/> the crankshaft of the internal combustion engine</p>