

## Theme 2: The cooling system

Points	K	No	Question, answers	Graphic images
2		2/1	<p><b>The cooling system of an internal combustion engine is designed to assure:</b>  cooling of the whole vehicle  transferring the heat from the hottest components of the engine and maintaining a constant temperature mode  only the cooling of the internal combustion engine</p>	
2		2/2	<p><b>The following coolants are used in a liquid cooling system:</b>  brake fluid  water  low freezing temperature liquids (anti-freeze liquids)</p>	
2		2/3	<p><b>The function of the radiator of the cooling system is:</b>  to forcefully circulate the coolant  to soak the heat from the coolant circulating in the water jacket  to emit heat in the environment</p>	
2		2/4	<p><b>The function of the coolant pump in the cooling system is:</b>  to forcefully circulate the coolant in the cooling system  to forcefully circulate the oil used to lubricate the components of the engine, subjected to friction</p>	
2		2/5	<p><b>The function of the cooling system fan is:</b>  to improve the heating of the engine by reducing the quantity of air flow passing through the radiator  to increase the intensity of the cooling of the radiator  to increase the intensity of cooling by increasing the pressure of the air</p>	
2		2/6	<p><b>The thermostat is a component of:</b>  the ignition system  the cooling system  the set of control and measuring instruments</p>	
2		2/7	<p><b>The function of the thermostat is:</b>  to measure the temperature of the coolant  to measure the temperature of the oil  to maintain automatically the temperature of the coolant within the specified limits</p>	
2		2/9	<p><b>The wear of the water pump seals:</b>  does not affect the normal operation of the cooling system  causes mixing of fuel with coolant  causes leakage of coolant</p>	
2		2/10	<p><b>A damage to the radiator causes:</b>  mixing of fuel and coolant  leakage of coolant  does not affect the normal operation of the cooling system</p>	
2		2/11	<p><b>Coolant leak may be caused by:</b>  a tear of the elastic couplings of the cooling system  loosening of the elements for mounting and assembly  damage to the radiator  a change in oil pressure</p>	

2		2/12	<p><b>The presence of air bubbles in the coolant at the radiator filler indicates:</b></p> <p>the presence of oil in the cooling system  defective seal between the block and the engine head  normal operation of the cooling system</p>	
2		2/13	<p><b>The level of the coolant in the cooling system must be checked:</b></p> <p>when the engine is cold  when the engine is warmed up</p>	
2		2/14	<p><b>For a hermetic cooling system the level of the coolant in the expansion tank must be:</b></p> <p>above the sign indicating the upper limit  between the signs indicating the upper and the lower limit</p>	
2		2/16	<p><b>If the air channels of the radiator are plugged:</b></p> <p>the radiator is always replaced by a new one  the radiator is blown through by compressed air  the radiator is washed with coolant</p>	
2		2/17	<p><b>The accumulation of scale on the inner surface of the water jacket:</b></p> <p>causes excessive cooling of the engine  does not affect the normal temperature regime of the engine  affects to the normal temperature regime of the engine</p>	
2		2/18	<p><b>The early opening of the thermostat:</b></p> <p>causes overheating of the engine  causes overcooling of the engine  results in a slower warming up of the engine  does not affect the normal temperature regime of the engine</p>	
2		2/19	<p><b>The late opening of the thermostat:</b></p> <p>does not affect the normal temperature regime of the engine  causes overheating of the engine  causes overcooling of the engine</p>	
2		2/24	<p><b>The smearing by oil of the belt driving the fan causes:</b></p> <p>slippage of the belt and affects to the cooling  increases the oil consumption of the engine  reduces the wear of the bearings of the water pump</p>	
2		2/25	<p><b>It is not recommended, under winter conditions of operating the vehicle, to use water because:</b></p> <p>water evaporates when boiling  water freezes at negative temperatures  water causes corrosion</p>	
2		2/26	<p><b>The water pump of the cooling system is driven by:</b></p> <p>the generator  the starter  the crankshaft of the internal combustion engine</p>	