

Theme: 4. Fuel system

Points	K	No	Question, answers	Graphic images
2		4/1.	<p><b>A fuel-air mixture, consisting of air and evaporated or finely dispersed fuel is burned in the cylinders of an internal combustion engine:</b></p> <p>correct incorrect</p>	
2		4/2.	<p><b>Detonation in gasoline engines means:</b></p> <p>explosive ignition and high-speed burning of the fuel in the cylinders of an internal combustion engine untimely and quick burning of the fuel outside the cylinders of an internal combustion engine</p>	
2		4/3.	<p><b>The detonation in gasoline engines:</b></p> <p>is characterized by a specific metallic "knocking" in the engine results in reducing output power results in overheating of the engine results in increasing the output power</p>	
2		4/4.	<p><b>The temperature of self-ignition of diesel fuels is:</b></p> <p>the highest temperature, at which the fuel is self-ignited without an auxiliary ignition source the lowest temperature, at which the fuel is self-ignited without an auxiliary ignition source the lowest temperature, at which the fuel is ignited by an auxiliary ignition source</p>	
2		4/5.	<p><b>The capability of diesel fuel to self-ignite is characterized by:</b></p> <p>the coke number the octane number the cetane number</p>	
2		4/6.	<p><b>The cetane number of diesel fuel is a characteristic of:</b></p> <p>density and viscosity capability of diesel fuel to self-ignite anti-detonation stability</p>	
2		4/8.	<p><b>The function of the fuel tank of the fuel system is:</b></p> <p>feeds the fuel, required for the operation of an internal combustion engine, to the carburettor stores the fuel, required for a specified period of operation of an internal combustion engine for dosing out fuel for each operational mode of the engine</p>	
2		4/11.	<p><b>The function of air filters is:</b></p> <p>to remove fuel drops from the air to remove mechanical impurities from the air to dose out fuel for each operational mode of the engine</p>	
2		4/12.	<p><b>The function of the noise suppressor (muffler) is:</b></p> <p>to reduce the noise when air enters the air filter to the carburettor to reduce the noise when releasing the exhaust gases to reduce the noise emitted by the brake system compressor</p>	
2		4/13.	<p><b>The catalytic neutralizer is a unit within the fuel system, whose function is:</b></p> <p>neutralize the toxicity of exhaust gases reduce fuel consumption at full-load operational modes increase the output power of the internal combustion engine at full-load operational modes</p>	

2		4/15.	<p><b>The function of the fuel injection pump in a diesel internal combustion engine is:</b></p> <p>to accept/extract fuel from the fuel tank</p> <p>to feed the fuel to the fuel injection pump at a pressure below a specified level</p> <p>to assure the high pressure of the fuel required for performing the working cycle</p>	
2		4/16.	<p><b>The function of the fuel injection pump of a diesel internal combustion engine is:</b></p> <p>to assure the high pressure of the air-fuel mixture required for performing the working cycle</p> <p>to assure the high pressure of the fuel</p>	
2		4/17.	<p><b>The function of the injector/nozzle of a diesel internal combustion engine is:</b></p> <p>to disperse the air injected in the cylinder of the internal combustion engine</p> <p>to inject the fuel from the injection pump smoothly and in the form of finely dispersed particles into the air compressed by the piston of the internal combustion engine</p> <p>to disperse into fine particles the fuel fed by the carburettor in the volume above the piston</p>	
2		4/18.	<p><b>Leakage of fuel from the fuel tank may occur:</b></p> <p>in case of deformation of the fuel tank walls</p> <p>in case of corrosion on the internal surface of the fuel tank</p> <p>in case of fractures and/or punctures in the fuel tank</p>	
2		4/19.	<p><b>Poor tightness in the couplings of fuel lines may cause:</b></p> <p>fuel leaks</p> <p>the emergence of an unnatural noise during engine operation</p> <p>the emergence of vibrations during engine operation</p>	
2		4/21.	<p><b>The damaged integrity of fuel lines may be caused by:</b></p> <p>concaves on the walls of the fuel tank</p> <p>damaged couplings</p> <p>puncture in the fuel lines</p> <p>plugging of the fuel lines</p>	
2		4/22.	<p><b>If gasoline is stored for a long period of time in the fuel tank, the quantity of the fuel:</b></p> <p>does not change</p> <p>is reduced due to sedimentation</p> <p>is reduced due to evaporation</p>	
2		4/23.	<p><b>Damaged hermeticity of the fuel injection pump in a diesel engine causes:</b></p> <p>“sucking” of coolant by the fuel system</p> <p>“sucking” of oil into by fuel system</p> <p>“sucking” of air by the fuel system</p>	
2		4/24.	<p><b>In case air is “sucked” into the fuel system of a diesel engine, it is necessary:</b></p> <p>to disassemble and wash the main assemblies of the fuel system</p> <p>to vent the fuel system</p>	
2		4/25.	<p><b>The presence of air sucked into the fuel system of a diesel engine may cause:</b></p> <p>impossibility to start the engine</p> <p>the engine cannot be shut down</p> <p>overcooling of the engine</p>	
2		4/26.	<p><b>Venting the fuel system of a diesel engine includes:</b></p> <p>replacement of the air filters</p> <p>sealing</p> <p>removal of the air sucked into the system</p>	

2		4/27.	<p><b>The replacement of the high-pressure fuel lines in the fuel system of a diesel engine with fuel lines with different length and diameter:</b></p> <p>does not affect the normal operation of the engine  causes a change in the normal operation of the engine</p>	
2		4/28.	<p><b>A dirty air filter with a paper filtering element:</b></p> <p>does not affect the normal operation of the engine  causes a change in the normal operation of the engine</p>	
2		4/29.	<p><b>The diesel engine cannot be started in case of excessive dirt on the fuel filters of the fuel system:</b></p> <p>correct  incorrect</p>	
2		4/30.	<p><b>What are the existing types of diesel fuel:</b></p> <p>summer and winter diesel fuel  thin and thick diesel fuel  there are no different types of diesel fuel</p>	
2		4/31.	<p><b>The octane number of gasoline is a characteristic of:</b></p> <p>the specific heat of combustion  the anti-detonation stability  the capability to self-ignite</p>	