

機械常識是非題

【英文】

題號	答案	題 目
001	X	A diesel engine is ignited by spark plugs.
002	O	A diesel engine intakes pure air and compresses it with a piston.
003	X	If a diesel engine won't start because you are out of fuel, you should open the injection pump and check it.
004	O	A diesel engine uses the heat of compression of air to initiate ignition to burn the fuel.
005	X	The spark plugs in a diesel engine might cause a knocking sound when the vehicle is driven at high speeds.
006	X	A diesel engine has a glow plug to facilitate diesel combustion when the vehicle is moving.
007	O	To help ensure the fuel injection system functions normally, a diesel engine has a fuel filter to remove impurities and moisture from the fuel.
008	O	If the pressure in the air brake lines drops because there is an air leak, the air brakes will lock up automatically.
009	O	Diesel engines have a glow plug in the air intake valve to ensure the engine will start in cold weather.
010	O	If a diesel engine is discharging black smoke, it's probably because the fuel injection nozzle has a problem.
011	X	Diesel fuel is injected into the combustion chamber via a cylinder that is fed by the carburetor.
012	O	If a diesel engine starts running in reverse, you must turn off the engine immediately.
013	O	When a diesel-powered vehicle is overloaded or traveling at a high speed, the engine is likely to emit black smoke.
014	O	Diesel fuel can be used as lubricant.
015	O	When you double mount two tires in the rear, you should use the tires with same tread depth or tread wear. If you must mount a new tire and an old tire together, the new tire should be mounted on the outside.
016	O	You should check or adjust tire pressure when the tires are at normal room temperature.
017	O	If the tire pressure is either too high or too low, the tires will most likely wear out faster and rupture more easily.
018	O	You should choose tires according to your needs. Tires with thicker or deeper treads will grip the surface of the road more firmly when driving.
019	X	It is easy to do a regular inspection of an inclinable cab. You just need to raise the cab to a medium height. No other safety measures are required.

機械常識是非題

【英文】

題號	答案	題 目
020	O	If your brake pads are worn out, you should have them repaired. Otherwise you will have to put more pressure on the brakes and brake for a longer time to stop your vehicle.
021	O	When driving a diesel-powered vehicle downhill, you should control your speed by using the proper gear in order to not overstress the brakes and affect the braking performance.
022	O	When driving downhill in low gear, it's important to pay attention to the engine rpms in order not to exceed the maximum limit.
023	O	Driving a vehicle with air brakes, if you constantly pump the brakes, not only that won't improve braking performance, but will unnecessarily drain air from the air reservoir, reducing the overall braking performance.
024	O	Water in the air reservoirs of large vehicles must be drained everyday.
025	X	If the air brake reservoir takes longer to fill up, you don't need to worry about it as long as your vehicle has enough air pressure.
026	X	If the braking pressure warning light is on and the alarm continues to sound, you can still drive safely as long as you drive slow.
027	O	If your vehicle has air brakes and you cannot start the engine, but have to move the vehicle, you must replenish to air in the brake chamber in order to release the brakes.
028	X	If the tires are locked the brakes will work better, but you will lose control of the vehicle.
029	X	When driving downhill, you should either shift into neutral (N) or push on the clutch pedal in order to save fuel.
030	O	If the front tires are not aligned, you will have hard time controlling your vehicle and the tires will wear out faster.
031	O	If an automatic drive vehicle breaks down and has to be towed away, the transmission shaft on the differential has to be removed. Otherwise, the transmission will be damaged due to inadequate lubrication.
032	O	Before shifting into reverse (R), you must wait until the vehicle comes to a complete stop.
033	O	The automatic drive transmission of a large vehicle works the same way as that of a passenger car. Therefore, the driver has to drive at a speed and in a gear appropriate for the road conditions and traffic situation.
034	O	The automatic drive transmission of a large vehicle works the same way as that of a passenger car. If you travel downhill in neutral (N), you will damage the transmission.

機械常識是非題

【英文】

題號	答案	題 目
035	O	There are buttons for some of the gear settings in an automatic drive vehicle. Therefore, it is best if drivers develop a habit of not pushing any buttons at all while driving unless they intend to change gears.
036	O	It is still possible to control a vehicle with power steering even if the steering fluid has completely leaked out. However, it will require a lot of force to turn the steering wheel.
037	O	If the pressure in the air brake lines drops below normal because there is an air leak, the wheels will automatically lock, so there will be no way to move the vehicle.
038	O	To prevent starting a fire, vehicle with catalytic converters should not be parked on a lawn or any flammable objects after driving.
039	X	As long as the overflow tank is full, it is not necessary to check the water level in the radiator.
040	X	If the water in the radiator contains either anti-freeze or an anti-rust agent, it's not necessary to ever change the water.
041	O	When breaking in a new car engine, you should not drive at high speeds or brake abruptly.
042	O	Vehicles with catalytic converters require unleaded gasoline.
043	O	If you pump the accelerator pedal, you will waste fuel and create more polluting exhaust gas.
044	O	If you drive a vehicle with electric gasoline pump until the fuel runs out, you may damage the pump.
045	O	An exhaust driven turbocharger is lubricated with oil.
046	O	The air intake valve is mounted in the lower part of the injection system, so you should not cross a flooded area where water level is higher than half the height of the tires.
047	O	Even if your car is running well, you still have to change the fuel filter regularly.
048	X	You can use leaded gas if your vehicle has a catalytic converter.
049	O	You must follow the user manual instructions and change the oil filter regularly.
050	O	Before you check the oil, you should park your car on a flat area and only check the oil while the engine is still running.
051	X	Driving on a flooded road will damage your engine.
052	O	It's normal for the water level in the overflow tank to drop when the engine is running.

機械常識是非題

【英文】

題號	答案	題 目
053	X	A cooling system has a thermostat for the purpose of helping the engine warm up faster.
054	O	If the engine overheats, you must stop to check immediately. But you should not take the radiator cap off while engine is hot to avoid being burned.
055	O	If engine oil appears creamy, it means it has been contaminated with water from the cooling system. In which case, the engine has to be repaired.
056	O	You can remove the muffler in order to increase engine power (Hp).
057	X	You can remove the cooling system thermostat in order to save fuel.
058	X	A very dirty air filter will cause the vehicle to burn more fuel and have less engine power (Hp).
059	O	When starting an engine in cold weather, it's normal for water to drip from the exhaust pipe.
060	O	If you remove the thermostat from the cooling system, it will not affect the engine's service life.
061	X	Adding too much oil to the engine will cause a lot of problems, such as preventing the spark plugs from properly firing, fuel inefficiency, and loss of engine power (Hp).
062	O	Vehicles are more fuel efficient when driven at high speeds. Therefore, you should drive as fast as you want.
063	X	It is normal for a vehicle to discharge black smoke.
064	X	Running a cold engine at a high speed will decrease the service life of the engine.
065	O	An engine consumes more gasoline when driving in cold temperature than in normal temperature.
066	O	Three-way catalytic converters reduce carbon monoxide, hydrocarbon and nitrogen oxide emissions, thereby minimizing air pollution.
067	O	The oil has to be changed regularly in order to maintain the engine's service life.
068	O	You should not start a water-cooled engine if there is no water in the radiator.
069	O	It's not the fault of the driver if a vehicle burns excessive fuel because some mechanical parts are worn out.
070	X	As long as there is enough water in the radiator, an engine will not overheat.
071	X	If the exhaust smoke is whitish blue when starting the engine smoke, it means the engine is burning oil.
072	O	If you hear a strange noise when you apply pressure to the brakes, you must stop & check the brakes immediately.

機械常識是非題

【英文】

題號	答案	題 目
073	O	If you hear a strange noise when you apply pressure to the brakes, that's normal. There's no need to check anything.
074	X	Whether or not the hand brake is engaged has no effect on the movement of a vehicle.
075	X	You should engage the hand (emergency) brake when you park your car to prevent it from rolling.
076	O	The hand brake and brake pedal should not be used at the same time.
077	X	With an ABS braking system, it's easier to control the vehicle when you stop abruptly.
078	O	The distance required for a driver to come to a complete stop to avoid hitting an obstacle they see in the road ahead is called "reaction distance."
079	X	If the brake pedal feels soft or loose when you push on it, it's probably because air or fluid is leaking from the brake lines. For safety reasons, you should stop and check the brakes immediately.
080	O	If you slam on the brakes abruptly, you may cause the vehicle to skid and overturn.
081	O	Even if the master cylinder is low on brake fluid in it, no air can get into the brake lines.
082	X	If there no fluid in the master brake cylinder, no air can get into the brake lines.
083	O	The brake lines connected to the master cylinder have to be kept unblocked at all times.
084	O	If you take your foot off the brake pedal, but the vehicle doesn't move at all, the pedal is probably stuck to the floorboard.
085	O	After driving on the same set of tires for sometime, you should rotate the positions of the tires to extend their life.
086	X	It doesn't matter if oil or grease gets on tires.
087	X	If your tires become overheated after driving for a long time, you should cool them down with water.
088	O	You have to keep a tire iron or lug nut wrench in your vehicle at all times.
089	X	The overload of a vehicle doesn't affect the steering.
090	O	When turning, the differential makes it possible for the inside and outside tires to move at different speeds.
091	O	Stepping on the clutch will not transmit power from the engine to the transmission system because they operate independently of each other.

機械常識是非題

【英文】

題號	答案	題 目
092	O	The transmission system comprises various sized gears that connect to one another to help change speeds.
093	O	When the transmission is in the lowest gear (D1), the vehicle will run slow, but have the maximum torque.
094	O	You must keep the outer casing of the transmission clean to ensure good heat dissipation.
095	O	If the steering wheel is heavy and difficult to turn, it's probably because the pressure in the tires is too low, the power steering is malfunctioning, or the drive belt is too loose.
096	X	The power-steering performance remains unaffected even if the engine is turned off.
097	O	If tires are not balanced, the steering wheel will vibrate when vehicle is traveling at a high speed.
098	X	It is not necessary to come to a complete stop before shifting from a drive gear into reverse or from reverse into a drive gear.
099	X	The higher the air pressure in a tire, the greater the road friction.
100	O	For a tire marked with 155SR12, the "R" indicates that it is a radial tire.
101	X	The gap of the brake lining for both disc brakes and drum brakes has to be adjusted.
102	X	To save expenses, brake fluid can be reused.
103	X	You can mix brake fluid of different brands and specifications to ensure the braking system function properly.
104	X	If a vehicle is stuck in mud, you can shift into a high speed gear to get it out.
105	X	To start an automatic drive vehicle, you have to shift it into drive (D).
106	O	When starting an automatic drive vehicle, you have to keep your foot on the brake pedal before you shift it into gear to prevent the vehicle from suddenly and dangerously lurching forward.
107	O	When towing a vehicle, the drive wheels must be lifted to protect the transmission.
108	X	It is normal for automatic-drive vehicle transmission fluid (ATF) to smell burnt and for the color to turn black or white.
109	X	The normal color of automatic transmission fluid (ATF) is blue.
110	O	If the rpms of an automatic drive vehicle do not increase as the vehicle's speed increases, the transmission is malfunctioning and needs to be repaired.
111	O	When driving an automatic drive vehicle down a steep hill, you must shift into a lower gear.

機械常識是非題

【英文】

題號	答案	題 目
112	X	When driving an automatic drive vehicle up a steep hill, you must shift into drive (D).
113	X	If the steering system is leaking fluid, the steering wheel will not move at all.
114	X	If a vehicle has an ABS braking system, you can brake quickly anytime, so keeping a safe driving distance is not necessary.
115	O	If the [ABS] warning light comes on, the ABS braking system is malfunctioning and has to be repaired.
116	X	Tires mounted on the same axle can be different types with different treads.
117	O	If you hear a sharp clicking noise when turning the steering wheel, the steering belt is probably too loose.
118	O	If you drive with your foot constantly on the clutch pedal, it will cause the clutch to wear out sooner than usual.
119	X	If you don't charge a discharged battery, the fluid in the battery will become thicker.
120	O	If the engine is difficult to start or can't be started, either the battery is dead or weak, or the starter motor is broken.
121	X	If you are having trouble getting the engine to start, you don't have to wait until the starter motor stops completely before cranking the ignition again because continuously cranking the ignition switch will make it easier to eventually get the engine to start.
122	X	If a fuse is burnt out, for convenience, you can replace it with any copper wire.
123	O	If you install an additional cigarette lighter in your vehicle, you might damage the electrical circuits.
124	O	The distributor cap transmits high-voltage electricity to spark plug wires which transmit the power to the cylinders via the spark plugs.
125	X	The purpose of a starter motor is to generate power.
126	O	Spark plugs conduct high-voltage power.
127	O	If there is inadequate fluid in the battery, the electrode plates will be exposed to air, thus shortening the life of the battery.
128	X	The hole on the battery cover is for adding fluid to the battery. Therefore, the hole should not be blocked under any circumstances.
129	X	Low-voltage electric current flows to the spark plugs.
130	O	If you turn off the ignition switch of a gasoline engine, but the engine doesn't stop, it's because the engine is overheated.
131	O	Coating the battery terminal posts with a small amount of lubricant will prevent corrosion.

機械常識是非題

【英文】

題號	答案	題 目
132	O	You must not crank the starter motor for more than 10-15 seconds at a time when starting the engine to avoid damaging the starter motor and battery.
133	X	The purpose of high-voltage coils in a car engine is to convert high voltage into low voltage.
134	O	As battery fluid contains sulfuric acid, you should be extremely careful not to get it on your skin, clothing, or vehicle.
135	O	If the battery fluid is low, you can add distilled water to the battery.
136	O	Once an engine reaches a certain temperature, the cooling fan automatically comes on to dissipate the heat.
137	O	After the engine is started, all the electrical power is supplied by the alternator.
138	X	If the battery light doesn't come on when you start your vehicle, the battery is dead.
139	O	When jump starting the battery of another vehicle, the positive end of the jumper cables must be connected the positive battery terminal post and the negative end of the jumper cable should be connected to any grounding surface on the vehicle being jumped, like on undamaged spot on the vehicle body.
140	O	Battery power is measured in amperes per hour.
141	X	The cooling fan is automatically activated as soon as you start the vehicle engine in order to begin dissipating heat immediately.
142	O	If the engine is starting to overheat, the temperature indicator will point to H.
143	X	If the battery is weak or dead, it will not affect the high voltage output.
144	O	If a high-voltage cable is damaged, causing electrical discharge, you should replace the entire cable.
145	X	The alternator supplies the power to start the vehicle engine.
146	X	If fluid level in the battery is low and the electrode plates are exposed to air, you can continue to use the battery without damaging it.
147	O	When the spark plug electrode turns reddish brown, it means the engine is combusting fuel normally.
148	O	The more electrical devices installed in a vehicle, the lower the fuel efficiency.
149	O	If the terminal cables are connected to the opposite polarity posts on the battery, any electrical devices installed in the vehicle will be damaged.
150	O	To stop the horn from constantly going off, you can remove the fuse.
151	X	If the battery in an automatic drive vehicle is weak, the engine can be started by pushing the vehicle.

機械常識是非題

【英文】

題號	答案	題 目
152	O	If you continue to crank the starter motor after the vehicle engine is started, you will damage the starter motor.
153	O	After you have already started the engine and the alternator is charging the battery, the light will go off.
154	O	If you always maintain the battery fluid at the proper level, you can extend the life of the battery.
155	X	An automatic drive drive can be started in any gear other than neutral (N) or park (P).
156	X	If the fan blades don't rotate when the engine is running, you can spin them by hand to force the fan to start working.
157	O	If you have a stereo with anti-theft protection and you remove the electrical wires before you know the user access password, you won't ever be able to use the stereo.
158	X	You can use a cigarette lighter for illumination if you need to check your vehicle battery when it's dark.
159	O	If you see powdery black carbon residue on the head of the spark plugs, it means either the spark plugs are not firing properly or there is a problem with the carburetor, and air to fuel mixture ratio needs to be adjusted.
160	O	When you replace the headlight cup, you have to adjust the headlights.
161	O	If you touch a halogen headlight bulb with your hands, you may affect its ability to illuminate and shorten its life.
162	X	You must disconnect the terminal cable from the positive battery post before removing the battery from a vehicle.
163	X	You can use engine oil as a substitute for the compressor oil in a vehicle air-conditioner.
164	X	4WD means 4-wheel steering.
165	O	When a diesel-powered vehicle is overloaded and traveling at a high speed, it emits black smoke.
166	O	There are three drive designs: front-wheel drive, rear-wheel drive, and 4-wheel drive.
167	O	When tires are aligned, they wear out evenly and have a longer life.
168	O	Disc brakes both dissipate heat and brake better than drum brakes.
169	O	You should never remove the battery terminal cables when the engine is running.

機械常識是非題

【英文】

題號	答案	題 目
170	O	Excessive transmission fluid will increase the resistance between the moving mechanical parts causing them to wear out faster, so it is critical to maintain the fluid at the right level.
171	O	The carburetor, oil, air filter, fuel filter, and spark plugs should be checked, adjusted, replaced, and/or cleaned regularly to ensure the vehicle gets maximum fuel efficiency.
172	O	If the brake pedal doesn't have travel, the brake will lock up.
173	O	If the headlight cup gets bent during an accident, it is best to replace the cup set and adjust the headlight angle.
174	O	You should check the automatic transmission fluid (ATF) level when the engine is idling.
175	X	The transmission system of manual drive vehicles and automatic drive vehicles is identical.