STEP WISE MARKING SCHEME

CLASS 9TH

AUTOMOTIVE

Q.NO	ANSWERS	MARKS
1	Job card and its filling procedure	5
	Washing of vehicle and Washing Procedure	
	Engine Minor tune up	
	Oil Replacement	
	Checking of battery electrolyte level and top up	
	Clutch and brake free play and their adjustment	
	Lighting System, its various part and their checking	
	Identification of greasing points of wheelers and procedure of	
	greasing. • Checking of tyre inflation and procedure of inflation. OR	
	1. Drive the vehicle with care everyday	
	2. Be patient during the accident or breakdown of a vehicle, call	
	helpline number of vehicle or police or hospital	
	3. Buy petrol at reputable service stations	
	4. Don't fill up if you see the tanker	
	5. Go easy when you're stuck	
	6. Car key chain should be lighten	
	7. Preserve your car during long-term storage	
	8. Park in the shade	
	9. Clean the inside, too	
	10. Clean dash gauges carefully	
2	• Fuel tank	5
	Fuel lines	
	Fuel pump (A.C. mechanical type or electrical type)	
	Fuel filter	
	Carburettor	
	Inlate manifold	
	Air cleaner	
	Note: In case of modern MPFI engines carburetor is replaced by	
	injectors and sensor.	
	OR	
	<u>Cylinder.</u> The cylinder of an I.C. engine is considered as the main body	
	of the engine in which piston reciprocates to develop power. It has to	
	withstand very high pressures (about 70 bar) and temperatures (about	
	22000C) because there is direct combustion inside the cylinder.	
	Therefore, its material should be such that it can retain strength at high	
	temperatures, should be good conductor of heat and should resist to	
	rapid wear and tear due to reciprocating parts.	
	<u>Piston</u> - Piston is the heart of the engine. The functions of the piston	

are to compress the charge during compression stroke and to transmit the gas force to the connecting rod and then to the crank during power stroke. The pistons of I.C. engines are usually made of cast iron. Connecting Rod- It is usually a steel forging of circular, rectangular, I,T, or H section and is highly polished for increased strength. Its small end forms a hinge and pin joint with the piston and its big end is connected to the crank by crank pin. It has a passage for the transfer of lubricating oil from the big end bearing to small end bearing (gudgeon pin). Hero make - Impulse, Splendor, CDdawn, Pleasure, Passion Plus Bajaj make - Pulsar , Discover, Platina TVS make - Apache, Star, Scooty streak, Scooty Pep, Star City Honda make - Activa, Dio, aviator Suzuki make - Access, Intruder M800, Zeus OR Bulldozer : A bulldozer is a crawler (continuous tracked tractor) equipped with a substantial metal plate (known as a blade) used to push large quantities of soil, sand, rubble, or other such material during construction or conversion work and typically equipped at the rear with a claw-like device (known as a ripper) to loosen denselycompacted materials. Road Roller: A road roller (sometimes called a roller-compactor, or just roller) is a compactor type engineering vehicle used to compact soil,
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I was all as a sector of a sector of the control of
gravel, concrete, or asphalt in the construction of roads and
foundations. Similar rollers are used also at landfills or in agriculture. In
some parts of the world, road rollers are still known colloquially as
steam rollers, regardless of their method of propulsion.
<u>Dumper</u> : Dumper is a vehicle designed for carrying bulk material, often
on building sites. Dumpers are distinguished from dump trucks by
configuration. A Dumper is usually an open 4-wheeled vehicle with the
load skip in front of the driver, while a Dump Truck has its cab in front
of the load. The skip can tip to dump the load; this is where the name
"dumper" comes from. They are normally diesel powered. A towing eye
is fitted for secondary use as a site tractor. Dumpers with rubber tracks
are used in special circumstances and are popular in some countries.
4 RADITOR 3
HOSE PIPE
FAN
WATER PUMP
THERMOSTATE VALVE
5 Language 3
Visual Perception
Past Experience
Prejudice
Feelings
Environment
Personal factors
Culture
OR

	Company Vehicle Low grade fule etc.	
6	 Daily Inspection (DI)- It is the responsibility of a driver or owner of a vehicle to carry out the following inspection/checks daily before the starting of engine to avoid any type of breakdown on the road. Check all thetyre pressure visually or hitting the tyre wall with the help of a stone piece and judging the sound. Check radiator coolant level. Check the fan belts for looseness. 	3
7	 Driving in drunk condition. Driving in sleepy condition Using cell phone while driving 	3
8	Cooling System: As our body requires air and water for cooling our system similarly engine also requires cooling. The cooling system has three primary functions. These functions are as follows: 1. Remove excess heat from the engine. 2. Maintain a constant engine operating temperature.	3
9	As you know that our body requires fluids like water and also oil in the form of fats like ghee, butter, cooking oil for maintenance of our system. 1. To reduce friction between moving parts to its minimum value so that power loss is minimized. 2. To reduce wear of the moving parts as far as possible. OR Commercial Vehicles- A Commercial Vehicle is a type of motor vehicle that may be used for transporting of goods as well passengers. Commercial vehicles influence the trade, commerce and industry of a country in a major way. Vehicles falling under this category are mainly buses &trucks.	3
10	When you are meeting someone for the first time, or if others want to know about you, you need to 'Introduce' yourself. You can do this by telling your name and some general information like about your hometown, your job or subjects as a student, your interests, etc.	2
11	Information can be recorded or stored in many ways. It can be hand-written on paper, typed using a typewriter or a computer and so on. When information is stored and recorded on electronic devices, it takes on a 'digital' form.	2
12	Communication skills are those skills which are needed to speak and write properly. A person who is able to speak appropriately whilst maintaining eye contact with the audience, uses varied vocabulary and articulate speech to suit the need of the audience is generally said to be an effective speaker. OR A hybrid vehicle is a vehicle that uses two or more distinct power sources to move the vehicle. Hybrid vehicle is known as Hybrid Electric	2

	vehicles (HEVs). This vehicle combines an internal combustion engine	
	and electric motors	
13	Use electric and CNG vehicle	2
	Do not use vehicle when not required	
14		2
15	Indian Automobile Scenario Indian Automobile Scenario Indian It started with import of cars for Royal families. Perhaps the first cars imported in India were in 1920s. For many years India did not have any manufacturing capability of its own. Hindustan Motors is one of the original car manufacturers in India OR Wheel cart is a vehicle designed for transport, using two wheels. A handcart is pulled or pushed by one or more people. However, from history we learn that animals instead of men were used for pulling the cart.	2
16	(A) Light	1
17	(B) 3500	1
18	(A) 1	1
19	© 1988	1
20	A-Window	1
21	A-Command	1
22	Cntrl+X	1
23	100 mtr.	1
24	Top Dead Center	1
25	Bottom Dead Center	1
26	Compressed Natural gas	1
27	Central processing unit	1
28	False	1
29	False	1
30	True	1