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campion or announce	211 00 0110 1 1000			
1. Older cars had heavy fra	ames, but most c	ars are built today with wha	at is known as a unibody design.	
•	a.	True	, ,	
	b.	False		
ANSWER:			True	
POINTS:			1	
2. In a spark-ignition engir	ne, gasoline is es	pecially combustible when	one part of it is atomized with about 15 μ	parts of air.
	a.	True		
	b.	False		
ANSWER:			True	
POINTS:			1	
3. Liquid gasoline does no	t burn.	T		
	a.	True		
	b.	False		
ANSWER:			True	
POINTS:			1	
4. Vintage engines have a	fuel injection sys	stem that mixes fuel and air	in response to the amount of air that flow	ws through
it.	<i>y</i> • • • • • • • • • • • • • • • • • • •		•	C
	a.	True		
	b.	False		
ANSWER:			False	
POINTS:			1	
5 Unlike diesel engines g	asoline engines	do not have spark plugs or	an ignition system because spark timing i	is controlled
by the fuel injection system		do not have spark prugs or	in ignition system because spark tilling i	s controlled
	a.	True		
	b.	False		
ANSWER:			False	
POINTS:			1	
6. During the four-stroke c	ycle, which ever	nt is LEAST-Likely to occu	r during the power stroke?	
a. The piston moves valve.	back up, forcing	any remaining exhaust gas	from the cylinder through the open exha	ust
b. The burning fuel e	expands rapidly.			
c. The piston moves	back down in th	e cylinder.		
-		ton approaches the bottom	of its travel.	
ANSWER:	. 1	* *		a

7. While discussing the four-stroke cycle, Technician A says that during the intake stroke, the piston is pulled down by the turning crankshaft, creating a vacuum above it. Technician B says this event occurs during the exhaust stroke. Who is right?

POINTS:

1

Name :	Class :		Dat e:
Chapter 01: Introduction to the Autom	obile		
a. A only	b.	B only	
c. Both A and B	d.	Neither A nor B	
ANSWER:			a
POINTS:			1
8. All of the following support the engine's o	peration EXCEPT:		
a. the fuel system		ectrical system	
c. the drive shaft	d. the lu	brication system	
ANSWER:			c
POINTS:			1
9 is circulated by the water pump throu where it can be carried away by the outside a		ngine's cylinder block. I	t carries heat to the radiator
a. Torque	b	Coolant	
c. Fuel	d	Steam	
ANSWER:			b
POINTS:			1
first 15 seconds of engine operation in the mo a. A only c. Both A and B ANSWER: POINTS:	b. d.	B only Neither A nor B	b 1
		EVCENT	
11. All of the following are included in the er a. the ignition system	igine's electrical system b.	the starting system	
c. the powertrain	d.	the charging system	
ANSWER:	u.	the charging system	c
POINTS:			1
12 react to temperature, airflow, engine	_	• •	aust stream.
a. Torques	b.	Actuators	
c. Pistons	d.	Sensors	
ANSWER:			d
POINTS:			1
13. Which of the following would LEAST-Li	kely be found on a rear-	wheel drive vehicle?	
a. Transaxle		b. Drive shaft	
c. Transmission		d. Differential	
ANSWER:			a
POINTS:			1

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Chapter 0	1: Introduction to the Auto	mobile			
14. On a ma	anual transmission vehicle, the M	MOST-Likely cause of a c	change in torque	would be:	
a.	the depression of the clutch		b.	changing gears	
c.	the uncoupling of the powertra	iin	d.	engine load	
ANSWER:					b
POINTS:					1
	chicle with automatic transmission speeds as the vehicle goes around		g would MOST-	Likely cause the rear	wheels to rotate
;	a. The drive shaft	b.	The transax	le	
	c. The clutch	d.	The differen	ıtial	
ANSWER:					d
POINTS:					1
16. The	includes t	the suspension and also su	ipports the engi	ne and the car body.	
ANSWER:		•	chassis		
POINTS:			1		
17. The pist	ton is sealed to the cylinder with nd down.	1	that slide agair	nst the cylinder wall	as the piston
ANSWER:		piston r	ings		
POINTS:		1			
	ypes of fuel delivery systems ha	ve been used on automobi	ile four-stroke c	ycle engines: carbure	etor, gasoline fuel
ANSWER:		diesel fuel injection			
POINTS:		1			
	ning through an engine's intake the intake manifold, which is kn			e cylinders. This res	ults in lower
ANSWER:			vacuum		
POINTS:			1		
20. The pur	pose of the	is to reduce or elimi	nate any remain	ing pollutants in the	engine's exhaust.
ANSWER:		emission system			
POINTS:		1			
21. Briefly ANSWER:	describe the basic operating print. The principle of its operation is and fuel in front of it. Compresof its travel, the <i>air-fuel mixtua</i> gases, it pushes on the rod, for	is simple. The piston move ssing the air and fuel mak re is ignited. As the piston	es up in the cyli es it very flamn n is pushed down	nable. When the pisto	on reaches the top

Power from the rotation of the crankshaft turns the wheels. As the crankshaft turns, the piston is returned to the top of the cylinder to repeat the cycle again. The continuing up-and-down motion of the piston is why the

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engine is called a reciprocating engine.

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Chapter 01: Introduction to the Automobile

POINTS: 1

22. What is the purpose of the ignition system and how does it operate?

ANSWER: The ignition system has the job of creating and distributing a timed spark to the engine's cylinders. Through a process called electromagnetic induction, a voltage of 5,000 to about 100,000 volts (on some of the newer systems) is created. The voltage causes a spark to jump a gap at the spark plugs to ignite the air-fuel mixture. The spark is timed to occur just before the top of the compression stroke. This is called ignition timing.

POINTS: 1

23. What is the relationship between the charging system and the ignition system? What is the role of the alternator?

ANSWER: As the vehicle is operated, electricity is drawn from the charging system to operate the ignition system, body electrical accessories, or lighting. The charging system includes an alternator, which is driven by a belt on the engine's crankshaft pulley. The alternator produces electrical current and forces it into the battery to recharge it. Battery voltage is monitored, and the alternator is switched on or off depending on charging requirements.

POINTS: 1

24. What is the difference between a front-wheel drive and a rear-wheel drive vehicle?

ANSWER: Front-wheel-drive cars use a transaxle and axle shafts, while rear-wheel-drive cars use a transmission and drive shaft coupled to a differential and rear axles. Transmissions can be either manually shifted using a clutch, or they can shift automatically.

POINTS: 1

25. What is the purpose of the exhaust system and what are its components?

ANSWER: The exhaust system carries exhaust from the engine to the rear of the car. It also quiets sound. The exhaust manifold, pipes, a muffler, a catalytic converter, and sometimes a resonator make up the exhaust system components.

POINTS: 1