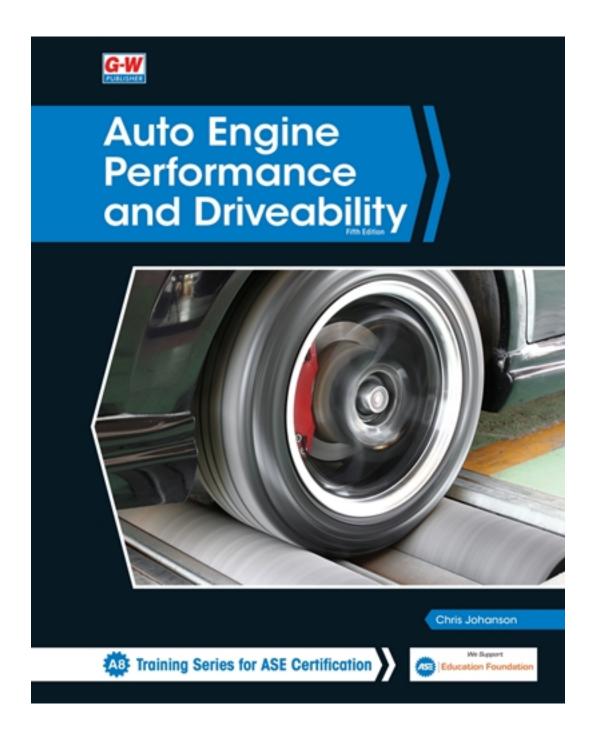
Test Bank for Auto Engine Performance and Drivability 5th Edition by Johanson

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Test Bank

1.	Until around the 1960s, which of the following was still true?
	a. Fuel economy was unimportant to most drivers.
	b. Almost no one was concerned about exhaust emissions.
	c. Solid-state electronic components did not exist "under the hood."
	*d. All of the above.
2.	In which decade were the first emission controls introduced?
	a. The 1950s.
	*b. The 1960s.
	c. The 1970s.
	d. The 1980s.
3.	Crude oil supplies are
	*a. constantly being depleted by use
	b. renewable resources
	c. mostly found in the United States
	d. never going to run out
4.	The majority of driving in the U.S. is done under which conditions?
	*a. At low speeds in urban areas.
	b. At highway speeds on the Interstate system.
	c. As a combination of off- and on-road driving.
	d. At medium speeds on rural highways.
5.	Modern horsepower readings are taken at the
	a. engine flywheel
	b. engine damper
	c. transmission/transaxle output shaft
	*d. driving wheels
	a. allving wheels

6. Technician A says that a tune-up will probably cure most driveability problems. Technician B says that, even if no driveability problem is evident, a tune-up should be performed at every second oil change. Who is right?
a. A only.
b. B only.
c. Both A and B.
*d. Neither A nor B.
7. Current final drive gear ratios are a compromise between fuel economy and
*a. low-speed power and acceleration
b. high-speed power and acceleration
c. top speed
d. smoothness during transmission/transaxle shifts
8. Technician A says that engine power must be used to overcome wind resistance at all speeds. Technician B says that air dams increase flow through the vehicle radiator. Who is correct?
a. A only.
b. B only.
*c. Both A and B.
d. Neither A nor B.
9. Technician A says that on a mild hybrid, the gasoline engine is shut off when the vehicle comes to a stop. Technician B says that regenerative braking can be used in any type of vehicle. Who is correct?
*a. A only.
b. B only.
c. Both A and B.
d. Neither A nor B.
10. On a fuel cell vehicle,

- a. oxygen and hydrogen are burned
- b. oxygen and hydrogen are stored in a tank
- *c. electricity propels the vehicle
- d. Either A or C.
- 11. The energy produced by regenerative braking is used to ..
 - a. help slow the vehicle
 - b. charge the vehicle battery
 - c. move the vehicle
 - *d. Both A and B.
- 12. Technician A says that use of computer controls has increased the number of components needing periodic replacement. Technician B says that use of computer controls has made driveability diagnosis more complex. Who is correct?
 - a. A only.
 - *b. B only.
 - c. Both A and B.
 - d. Neither A nor B.
- 13. A motor/generator consists of:
 - a. An electric motor and an internal combustion engine.
 - b. An internal combustion engine and a generator.
 - *c. An electric motor and a generator.
 - d. A or B, depending on the manufacturer.
- 14. Technician A says that unitized bodies develop fewer rattles than bodies bolted to a separate frame. Technician B says that unitized bodies transmit more rattles from other places in the vehicle than non-unitized bodies. Who is correct?

- a. A only. b. B only. *c. Both A and B. d. Neither A nor B. 15. Supplies of crude oil are practically inexhaustible; the problem is getting them to refineries. a. True *b. False
- 16. Some vehicle parts are made from recycled plastics, such as soft drink bottles.
 - *a. True b. False
- 17. Some engine mounts are filled with fluid.
 - *a. True b. False
- 18. A fuel cell vehicle uses a small internal combustion engine with a supercharger.
 - a. True
 *b. False
- 19. A hybrid vehicle produces no emissions when it is stopped in traffic.
 - *a. True b. False
- 20. Transmission shift valves are moved by hydraulic pressure, as opposed to how they were moved in older designs.
 - a. True *b. False
- 21. Vacuum-operated EGR valves have been replaced with exhaust-operated valves.

 - a. True
 *b. False

22.	Manufacturing	tolerances	have	decreased	greatly	over	the	past	few
deca	ades.								

- *a. True
- b. False
- 23. Fuel cell technology involves a chemical reaction.
 - *a. True
 - b. False
- 24. The stated vehicle power is measured at the engine flywheel.
 - a. True
 - *b. False
- 25. The final drive ratio is around 4.11 to 1.
 - a. True
 - *b. False
- 26. Aerodynamic body shapes reduce top speed.

 - a. True *b. False
- 27. Hybrid vehicles do not have a separate alternator.
 - *a. True
 - b. False
- 28. Under heavy acceleration, a hybrid vehicle may be driven by the internal combustion engine and the motor/generator.
 - *a. True
 - b. False
- 29. Match the vehicle part or system with its description.

- [i] 1. Stamped in one piece or welded together.
- [b] 2. Turned by exhaust
 gases.
- [c] 3. Reduces torque converter slippage.
- [f] 4. Produces
 electricity by chemical
 reaction.
- [d] 5. Used on vehicles
 with manual
 transmissions/transaxles.
- [e] 6. First used on diesel engines.
- [h] 7. Can move the vehicle if the engine fails.
- [a] 8. A method of reducing drivetrain weight.

- a. Front-wheel drive
- b. Turbocharger
- c. Lockup clutch
- d. Shift light
- e. Fuel injection
- f. Fuel cell
- g. Oxygen sensor
- h. Integrated motor assist
- i. Unibody

- 30. Match the particular engine or vehicle characteristic with the decade during which it was widely used. Some answers may be used more than once.
 - [g] 1. Average weight of 4000 pounds (1814 kg).
 - [f] 2. Average weight of 3000 pounds (1360 kg).
 - [e] 3. 350 cu. in. (5.7 L).
 - [b] 4. 230 cu. in. (3.8
 - [a] 5. Fuel injection.
 - [c] 6. Overdrive
 transmission.
 - [d] 7. Front-wheel drive.

- a. 1990s engine
- b. 1990s engine
- c. 1990s vehicle
- d. 1990s vehicle
 - e. 1960s engine
 - f. 1990s vehicle
 - g. 1960s vehicle
- 31. Automatic transmissions/transaxles have housings made of ...

Correct Answer(s):

a. aluminum

32.	A manual transmission/transaxle may have as many as speeds.
	<pre>Correct Answer(s): a. six</pre>
	b. 6
33.	The an engine turns at highway speeds, the less fuel it uses.
	Correct Answer(s): a. slower
34.	Almost all older vehicles hadwheel drive.
	Correct Answer(s): a. rear
35.	When fuel is broken into small particles, it is said to be
	<pre>Correct Answer(s): a. atomized</pre>
36.	Turbochargers and superchargers force more into the engine.
	Correct Answer(s): a. air
	In a hybrid vehicle, the integrated motor assist is installed between engine and $___$.
	<pre>Correct Answer(s): a. transmission/transaxle</pre>
	b. transmission or transaxle
	c. transmission and transaxle
38. obv:	Good driveability means engine and vehicle operation without any ious
	Correct Answer(s):

39. A	typical overdrive ratio is around to 1.
	Correct Answer(s): a. 0.7
	b7
	t is uncommon for today's technician to go through even one day ut referring to information.
	<pre>Correct Answer(s): a. service</pre>
41. T	oday, engine power is measured at the
	Correct Answer(s): a. drive wheels
42. A	fuel cell vehicle must be refilled with
	Correct Answer(s): a. hydrogen