GM Lubrication Systems Module:

1 Technician A states that the purpose of lubrication is to reduce the friction of moving engine parts. Technician B states that lubrication does not assist in cooling the engine. Who is correct?

2

A. Technician A only
B. Technician B only
C. Both A and B
D. Neither A nor B

2 Name 2 major components inside a modern spin on oil filter

1.

2.

3 Two technicians are discussing the lubrication path inside an engine. Technician A states that oil passes through the oil filter before it is drawn into the oil pump. Technician B states that oil travels to the main oil galleys before it travels to the main and rod bearings. Who is correct?

A. Technician A only
B. Technician B only
C. Both A and B
D. Neither A nor B

4 Name the three types of oil pumps used on GM vehicles.

1.

2.

3.

5. When testing oil pressure Technician A states that the engine RPM should be brought up to 1400 Rpm after the vehicle starts. Technician B states that the engine should be up to operating temperature to get an accurate reading Who is correct?

A. Technician A only

B. Technician B only

C. Both A and B

D. Neither A nor B

6 When checking for oil leaks on GM vehicles Technician A states that the high intensity lamp and dye method can be used. Technician B states that only the powder method can be used. Who is correct?

A. Technician A only
B. Technician B only
C. Both A and B
D. Neither A nor B

GM Cooling Systems Module:

7 Two technicians are discussing engine coolant. Technician A states that Dex-Cool is orange in color and must be changed every 2 years or 30,000 mi. Technician B states that conventional coolant is green and has a change interval of 5 years or 150,000 mi Who is correct?

A. Technician A only
B. Technician B only
C. Both A and B
D. Neither A nor B

8 Technician A states that the job of the thermostat is to control the flow of coolant through the radiator. Technician B states that the thermostat enables controlled engine warm up. Who is correct?

A. Technician A only
B. Technician B only
C. Both A and B
D. Neither A nor B

9 While discussing GM engine cooling fans. Technician A states that electric cooling fans can be either the pusher or puller type. Technician B states that GM belt driven fans are of the clutch type. Who is correct?

A. Technician A only
B. Technician B only
C. Both A and B
D. Neither A nor B

10 Technician A states that when testing a General Motors cooling system special tool J24460-01 is required. Technician B states the when testing the radiator cap or surge tank special tool J42401 is required. Who is correct?

A. Technician A only
B. Technician B only
C. Both A and B
D. Neither A nor B

GM General Engine Diagnosis Module:

11 You have an engine with a carbon concern. What GM recommended product can you use to remove the carbon without disassembling the engine?

A. Brake cleaner
B. Water injection
C. Propane
D. Top engine cleaner

12 We have a valve with damage on the stem tip, and lubrication is sufficient. What do you suspect could be the root cause?

A. Bent push rod
B. Worn valve guide
C. Worn cam lobe
D. Light carbon on the valve

13 All of the following are general sources of lower engine knocking **except**:

A. Main/rod bearing knock
B. Carbon in the combustion chamber
C. Dirty valve lifters
D. Loose or broken flywheel

14 Two technicians are discussing a single cylinder misfire. Technician A states that a stretched timing chain could be the cause. Technician B states that an open fuel injector coil could be the cause. Who is correct?

A. Technician A only
B. Technician B only
C. Both A and B
D. Neither A nor B

15 Technician A states that a cylinder leakage test may be used in conjunction with a compression test to isolate the cause of leaking cylinders. Technician B states that the J35667-A or equivalent cylinder leakage tester should be used to perform the test. Who is correct?

A. Technician A only
B. Technician B only
C. Both A and B
D. Neither A nor B

16 Two technicians are discussing engine vacuum readings, Technician A states that normal engine vacuum at idle should be steady at 15-22 inches Hg. Technician B states that excessive vibration at all RPM indicates a restriction in the exhaust. Who is correct?

A. Technician A only
B. Technician B only
C. Both A and B
D. Neither A nor B