

Name _____

MULTIPLE CHOICE. Choose the one alternative that best completes the statement or answers the question.

- 1) Technician A says to carefully install all accessories when installing a replacement engine. Technician B says that when installing the transmission and other components on the engine block, be sure to use a box wrench to tighten all fasteners to factory specifications. Who is right? 1) _____
A) Technician A only
B) Technician B only
C) Both technicians
D) Neither technician
- 2) Before installing or starting a new or rebuilt engine, all of the following items should have been checked, EXCEPT _____. 2) _____
A) battery fully charged
B) pre-lube engine and check for proper oil pressure
C) check that all of the vacuum lines are correctly installed and routed
D) rear axle is topped off
- 3) Why must flat-bottom lifter camshafts be broken in at a fast idle? 3) _____
A) The cam in a cam-in-block engine is only lubricated by splash oil.
B) The flat-bottom of the lifters must become slightly concave in order to rotate.
C) Both A and B are correct.
D) Neither A nor B are correct.
- 4) Normal operating temperature is reached when _____. 4) _____
A) the radiator cap releases coolant into the overflow
B) the upper radiator hose is hot and pressurized
C) the cooling fan has cycled at least once (if the vehicle is so equipped)
D) both B and C
- 5) Break-in engine oil is _____. 5) _____
A) of the same viscosity and grade as that specified for normal engine operation
B) SAE 40
C) SAE 30
D) SAE 20W-50
- 6) Technician A says to always adjust the clutch free play after starting the engine. Technician B says that the old clutch disc can be reused if it looks OK. Who is right? 6) _____
A) Technician A only
B) Technician B only
C) Both technicians
D) Neither technician

- 7) Technician A says to use SAE 30 engine oil on an engine break-in. Technician B says that it is recommended to change the engine oil and filter after 30 minutes of running time. Who is right? 7) _____
- A) Technician A only
 - B) Technician B only
 - C) Both technicians
 - D) Neither technician
- 8) Always adjust the _____ before starting the engine to help prevent thrust bearing damage. 8) _____
- A) shift linkage
 - B) clutch free play
 - C) brake pedal travel
 - D) driveshaft angle
- 9) The _____ is part of the transmission case on most automatic transmissions. 9) _____
- A) drive plate
 - B) output shaft
 - C) bell housing
 - D) input gear
- 10) If the bell housing is not properly torqued to the engine block, _____. 10) _____
- A) the bell housing will distort
 - B) the engine block will crack
 - C) the rear cylinder can be distorted (become out-of-round)
 - D) the crankshaft will crack