

Name \_\_\_\_\_

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

- 1) Technician A says that when the camshaft is being installed, the lobes of the cam should be coated with a special lubricant. Technician B says that the piston ring gap should be about 0,004 inch per inch of cylinder bore. Which technician is correct? 1) \_\_\_\_\_  
A) Technician A only  
B) Technician B only  
C) Both technicians  
D) Neither technician
- 2) Service information states that SAE 30 engine oil should be used on the threads of the head bolts, before installation and torquing. Technician A says that SAE 5W-30 will work. Technician B says that SAE that 10W-30 will work. Who is right? 2) \_\_\_\_\_  
A) Technician A only  
B) Technician B only  
C) Both technicians  
D) Neither technician
- 3) What can happen if gasket surfaces are too smooth? 3) \_\_\_\_\_  
A) Gasket can move out of proper location, causing leakage  
B) Gasket will not be able to seal the deep grooves in the surface  
C) Nothing will happen  
D) Gasket will seal with no leaks
- 4) If the torque and horsepower readings are graphed, where do the curves cross (equal each other)? 4) \_\_\_\_\_  
A) Never  
B) At peak horsepower, which can vary from engine to engine  
C) At peak torque, which can vary from engine to engine  
D) At 5,252 RPM
- 5) Piston ring end gap can be increased by \_\_\_\_\_. 5) \_\_\_\_\_  
A) filing the ring to make gap larger  
B) installing oversize rings  
C) sleeving the cylinder  
D) knurling the piston
- 6) Technician A says that the piston and rod assembly can be fitted into any bore. Technician B says that connecting rod side clearance should be checked with a feeler (thickness) gauge. Who is right? 6) \_\_\_\_\_  
A) Technician A only  
B) Technician B only  
C) Both technicians  
D) Neither technician

- 7) Typical thrust bearing clearance is \_\_\_\_\_. 7) \_\_\_\_\_  
A) 0.001 to 0.003  
B) 0.002 to 0.012  
C) 0.025 to 0.035  
D) 0.050 to 0.100
- 8) Technician A says that all oil galleries must be thoroughly cleaned before engine assembly can begin. Technician B says that all expansion cups and plugs should be installed with a sealer to prevent leaks. Who is right? 8) \_\_\_\_\_  
A) Technician A only  
B) Technician B only  
C) Both technicians  
D) Neither technician
- 9) Head gasket installation is being discussed. Technician A says that the surface finish of the cylinder head or block deck is very important for proper sealing to occur. Technician B says that if "front" is marked on a head gasket, the mark should be installed near the accessory drive belt end of the engine. Who is right? 9) \_\_\_\_\_  
A) Technician A only  
B) Technician B only  
C) Both technicians  
D) Neither technician
- 10) Turning the oil pump before starting the engine should be done for all of these reasons, EXCEPT \_\_\_\_\_ 10) \_\_\_\_\_  
\_\_\_\_\_.  
A) lubricate engine bearings  
B) lubricate valve train components  
C) supply oil to the camshaft  
D) to get the distributor in the right position