Automotive Technology 6th Edition Chapter 30 - Cylinder head and Valve Guide Service Quiz 30A Name MULTIPLE CHOICE. Choose the one alternative that best completes the statement or answers the question. 1) Technician A says that the only valve guide repair option for integral valve guides is to use oversize-stem valves. Technician B says that valve guides should be checked for wear using a ball gauge or a dial indicator. Who is right? A) Technician A only B) Technician B only C) Both technicians D) Neither technician 2) Resurfacing of the cylinder head has no effect on the compression ratio. 2) _____ A) True B) False 3) Two technicians are discussing a Hemi engine. Technician A says that a Hemi is an engine with a 3) hemi-spherical shaped combustion chamber. Technician B says that all Hemi engines are cam-in-block designs. Which technician is correct? A) Technician A only B) Technician B only C) Both technicians D) Neither technician 4) Valve _____ occurs when both valves are open at the same time at the end of the exhaust stroke and at the beginning of the intake stroke. A) collision B) rotation C) overlap D) inversion 5) A warped aluminum cylinder head can be restored to useful service by _____. 5) _____ A) grinding the gasket surface and then align honing the camshaft bore B) heating in an oven at 500°F with shims under each end, allowing it to cool, and then machining it C) heating it to 500°F for 5 hours and cooling it rapidly before final machining D) machining the gasket surface to one-half of the warped amount and then heating the head in an oven and allowing it to cool slowly 6) Technician A says that cylinder head resurfacing machines include grinders and milling 6) _____ machines. Technician B says that cylinder head resurfacing will change the compression ratio. Who is

A) Technician A onlyB) Technician B onlyC) Both techniciansD) Neither technician

7) Some vehicle manufacturers recommend repairing integral guides with	7)
A) OS stem valves	
B) knurling	
C) replacement valve guides	
D) valve guide inserts	
8) What other engine component may have to be machined if the cylinder heads are machined on a	8)
V-type engine?	
A) Exhaust manifold	
B) Intake manifold	
C) Block deck	
D) Distributor mount (if the vehicle is so equipped)	
9) The gasket surface of a cylinder head, as measured with a precision straightedge, should have a	9)
maximum variation of	
A) 0.002 inch in any 6-inch length or 0.004 inch overall	
B) 0.001 inch in any 6-inch length or 0.004 inch overall	
C) 0.020 inch in any 10-inch length or 0.020 inch overall	
D) 0.004 inch in any 10-inch length or 0.008 inch overall	
10) Which type of valve guide is most used in a cast-iron head?	10)
A) Integral	
B) Bronze	
C) Powdered metal (PM)	
D) Thin-wall sleeve type	

Answer Key

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- 1) B Page Ref: 312-313
- 2) B Page Ref: 310
- 3) A Page Ref: 304
- 4) C Page Ref: 305
- 5) B Page Ref: 310
- 6) C Page Ref: 310
- 7) A
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- 8) B Page Ref: 312
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- 10) A Page Ref: 312