Automotive Technology 6th Editic	n
Quiz 30B	

PLE CHOICE. Choose the one alternative that best completes the statement or answers the	question.
1) Some vehicle manufacturers recommend repairing integral guides with	1)
A) OS stem valves	,
B) knurling	
C) replacement valve guides	
D) valve guide inserts	
2) Valve occurs when both valves are open at the same time at the end of the exhaus	st 2)
stroke and at the beginning of the intake stroke.	
A) collision	
B) rotation	
C) overlap	
D) inversion	
3) Which type of valve guide is most used in a cast-iron head?	3)
A) Integral	
B) Bronze	
C) Powdered metal (PM)	
D) Thin-wall sleeve type	
4) Which of these statements is TRUE about surface finish?	4)
A) Cast-iron surfaces should be smoother than aluminum surfaces.	
B) The rougher the surface, the higher the microinch finish measurement.	
C) The smoother the surface, the higher the microinch finish measurement.	
D) A cylinder head should be much smoother than a crankshaft journal.	
5) To help ensure proper engine cooling, most cylinder head designs use	5)
A) long exhaust ports and short intake ports	
B) short exhaust ports and long intake ports	
C) large exhaust crossover passages	
D) coolant passages restricted by head gaskets	
6) The use of a knurling tool is being described. After the knurling tool displaces the metal ins	
the guide, a is run through the guide to produce a restored, serviceable valve guide	de.
A) reamer	
B) drill bit	
C) file	
D) ball gauge	
7) Which of these operations should be performed first?	7)
A) Installing replacement guides	
B) Resurfacing the head	
C) Grinding the valves	
D) Grinding the seats	

8) Pressed-in valve are used in aluminum heads	8)
A) guides	
B) seat inserts	
C) springs	
D) both A and B	
9) For lowest hydrocarbon emissions, which of these engine design features is used?	9)
A) Low combustion chamber surface-to-volume ratio	
B) High combustion chamber surface–to–volume ratio	
C) Non-centrally mounted spark plug	
D) Increased (as much as possible) quench area	
10) The gasket surface of a cylinder head, as measured with a precision straightedge, should have a maximum variation of	10)
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	

Answer Key

Testname: AT6_30B

- 1) A Page Ref: 314
- 2) C
- Page Ref: 305
- 3) A
 - Page Ref: 312
- 4) B
 - Page Ref: 311
- 5) B
 - Page Ref: 307
- 6) A
 - Page Ref: 314
- 7) B
 - Page Ref: 308
- 8) D
- Page Ref: 312
- 9) A
 - Page Ref: 304
- 10) A
 - Page Ref: 310