Automotive Engines 10th

Quiz 25B

TIPLE CHOICE. Choose the one alternative that best completes the statement or answers the question.		
 Technician A says that an Audi five-valve engine uses three intake valves and two exhaust valves. Technician B says that it uses three exhaust valves and two intake valves. Which technician is correct? A) Technician A only B) Technician B only C) Both technician A and B D) Neither technician A nor B 	1	
 2. Technician A says that the most commonly used combustion chamber types include hemispherical, and wedge. Technician B says that coolant and lubricating openings and passages are located throughout most cylinder heads. Which technician is correct? A) Technician A only B) Technician B only C) Both technicians A and B D) Neither technician A nor B 	2	
 3. Two technicians are discussing a Hemi engine. Technician A says that a Hemi is an engine with a 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 technician A and B D) Neither technician A nor B 	3	
 4. Valve stem-to-guide clearance is usually for an exhaust valve. A) 3 to 5 mm B) 0.001 to 0.003 inch C) 0.05 to 0.1 mm D) None of these 	4	
 5. Cylinder head intake ports connect the to the intake valves. A) cam lifter B) intake manifold C) coolant passages D) shrouds 	5	
 6. 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. Which technician is correct? A) Technician A only B) Technician B only C) Both technicians A and B D) Neither technician A nor B 	6	

 7. Which type of valve guide is most used in a cast-iron head? A) Integral B) Bronze C) Powdered metal (PM) D) Thin-wall sleeve type 	7
 8. Why should the intake manifold alignment be checked on a V-type engine if the cylinder head gasket surface is ground? A) To ensure that the intake manifold gaskets provide a good seal B) To match the ports to the gaskets C) The heads may not fit the block D) All of the above 	8
 9. Typical intake valve stem-to-guide clearance is A) 0.030 to 0.045 inch (0.8 to 0.10 mm) B) 0.015 to 0.020 inch (0.4 to 0.5 mm) C) 0.005 to 0.010 inch (0.13 to 0.25 mm) D) 0.001 to 0.004 inch (0.025 to 0.076 mm) 	9
 10. Removal of excessive material from the block or cylinder head during machining can cause valve timing to be on an overhead cam engine. A) shortened B) advanced 	10

- C) normal D) retarded

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- 1. A Page Ref: 342
- 2. C
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- 3. A
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- 4. C
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- 5. B

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6. B

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- 7. A
 - Page Ref: 347
- 8. A

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9. D

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10. D

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