Automotive Technology 6th Edition Chapter 32 - Camshafts and Valve Trains Quiz 32B

D) Both A and B

PLE CHOICE. Choose the one alternative that best completes the statement or answers the ques	stion.
1) On an engine with variable cam timing, the cam timing can be changed by use of	1)
A) a spline cam phaser	
B) a vane cam phaser	
C) either of these	
D) neither of these	
2) Variable cam timing technology is used on the exhaust cam only.	2)
A) True	
B) False	
3) The valves could be bent if the timing belt breaks on which of these?	3)
A) Freewheeling engine design	
B) In-block cam engine	
C) Interference engine design	
D) Undersquared engine	
4) A cylinder deactivation system uses to operate the system.	4)
A) magnetic induction	
B) oil pressure	
C) roller pumps	
D) none of these	
5) Flat-bottom valve lifters rotate during operation because of the of the camshaft.	5)
A) taper of the lobe	
B) thrust plate	
C) chain tensioner	
D) bearings	
6) The camshaft makes for every revolution of the crankshaft.	6)
A) one quarter revolution	
B) one half revolution	
C) one revolution	
D) two revolutions	
7) The intake valve opens at 39° BTDC (before top dead center) and closes at 71° ABDC (After	7)
bottom dead center). The exhaust valve opens at 78° BBDC (before bottom dead center) and	
closes at 47° ATDC (after top dead center). Which of these is correct regarding this cam timing?	
A) Intake valve duration is 110°	
B) Exhaust valve duration is 125°	
C) Overlap is 86°	

8) Which term is used to describe the number of degrees of crankshaft rotation for which the valve is lifted off the seat?	8)
A) Duration	
B) Lift	
C) Overlap	
D) Underlap	
9) Technician A says that silent chains are quieter than roller chains and do not stretch with use.	9)
Technician B says that on overhead valve engines, the camshaft is usually placed in the block	
above the crankshaft. Who is right?	
A) Technician A only	
B) Technician B only	
C) Both technicians	
D) Neither technician	
10) Two technicians are discussing an engine with an interference design. Technician A says if a	10)
valve remains open when its cylinder reaches TDC, the piston may strike the valve. Technician B	
says if a valve remains open when its cylinder reaches TDC, valvetrain damage can result.	
Which technician is correct?	
A) Technician A only	
B) Technician B only	
C) Both technicians	
D) Neither technician	
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Answer Key

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1) C

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2) B

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3) C

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4) B

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5) A

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6) B

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7) C

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8) A

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9) D

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10) C

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