## (ASA) Powerplant Oral Study Guide|Topic exercise Quizzes and solutions\1<sup>st</sup> Edition 2025

What is the main advantage of a horizontally opposed engine over a radial engine for powering modern aircraft? - answer-The horizontally opposed engine has a much smaller frontal area and is easier to streamline than a radial engine

How many throws are there in the crankshaft of a six-cylinder horizontally opposed engine? - answer-Six

What kind of connecting rod arrangement is used in a radial engine? - answer-A master rod connects the single throw of the crankshaft with a piston. All of the other pistons are connected to the master rod with link rods

Of what material are most piston rings made? - answer-Gray cast iron

What is the reason for using hydraulic valve lifters in an aircraft engine? - answer-Hydraulic valve lifters keep all of the clearance out of the valve operating mechanism. This decreases the wear of the valve train components

At what speed does the camshaft turn, relative to the crankshaft speed in a horizontally opposed engine? - answer-The camshaft turns at one half of the crankshaft speed

What kind of main bearings are used in a horizontally opposed engine? - answer-Steelbacked, lead-alloy bearing inserts

On what stroke is the piston of a reciprocating engine when the intake valve begins to open? - answer-On the exhaust stroke!

On what stroke is the piston of a reciprocating engine when the exhaust valve begins to open? - answer-On the power stroke

Why are both the hot and cold valve clearances give for most radial engine? - answer-The hot clearance is given for valve timing purposes. The timing is adjusted with the valves in cylinder number one, set with the hot clearance. When the timing is set, all of the valves are adjusted to their cold clearance.

What is meant by a cam-ground piston? - answer-A piston that is not perfectly round. Its dimension parallel with the wrist pin is several thousandths of an inch less than its dimension perpendicular to the wrist pin. When the piston reaches operating

# **Powerplant Study Guide Asa**

SJ Ball

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