



ASVAB-SECTION-3^{Q&As}

ASVAB Section Three : Mechanical Comprehension

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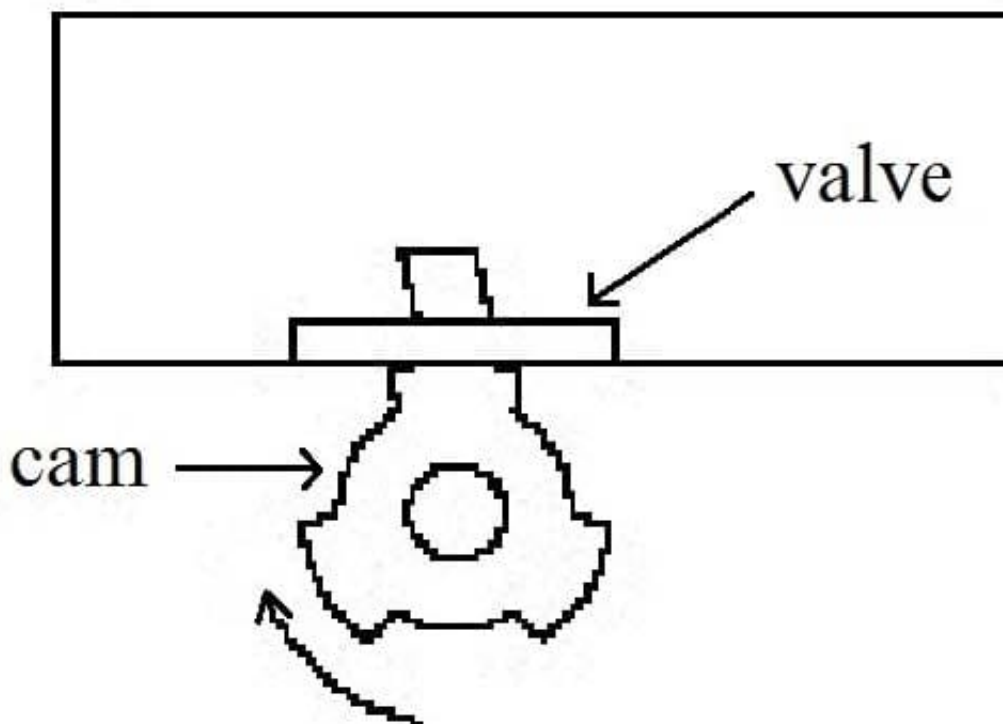


**QUESTION 1**

What are the potential functions of gear systems?

- A. Gears may be used to change direction in machinery and can be used to increase speed.
- B. Gears possess a single function: transmitting motion.
- C. The potential functions of gears are: changes in direction, speed changes (both increases and decreases), and motion transmission.
- D. Gears are primarily used for making changes in speed, but may also be used to instigate motion in machinery.

Correct Answer: C

QUESTION 2

For the valve shown in the figure above to open once each second, the cam must revolve at a rate of _____.

- A. 6 rpm
- B. 10 rpm
- C. 15 rpm
- D. 3 rpm

Correct Answer: A



Because 60 seconds comprise a minute, the valve must open 60 times per minute. The cam will open the valve 10 times per revolution, so $60 \div 10 = 6$.

The cam must make 6 revolutions per minute to raise the valve 60 times per minute.

QUESTION 3

How does oil function in a machine with a series of moving parts?

- A. Oil functions as a cleaning agent, allowing all moving parts to remain free of dirt and grime.
- B. Oil functions as a source of lubrication, allowing moving parts to function as a single unit.
- C. Oil serves as a fuel for moving parts in a machine.
- D. Oil provides a source of power when paired with fire.

Correct Answer: B

QUESTION 4

A compound machine is one in which _____.

- A. a battery provides the force
- B. one simple machine rotates around the second one
- C. two or more simple machines work together
- D. the mechanical advantages can be made to balance each other out

Correct Answer: C

A compound machine is one in which two or more simple machines work together.

QUESTION 5

A hydraulic jack performs the task of moving objects by _____.

- A. utilizing oil; because oil cannot be compressed, pressure is placed upon the oil, resulting in a lifting motion
- B. pressing together two interfacing parts to increase height
- C. using a pulley system to lift items
- D. using a corkscrew-like effect to function

Correct Answer: A



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