ASVAB-SECTION-3^{Q&As}

ASVAB Section Three : Mechanical Comprehension

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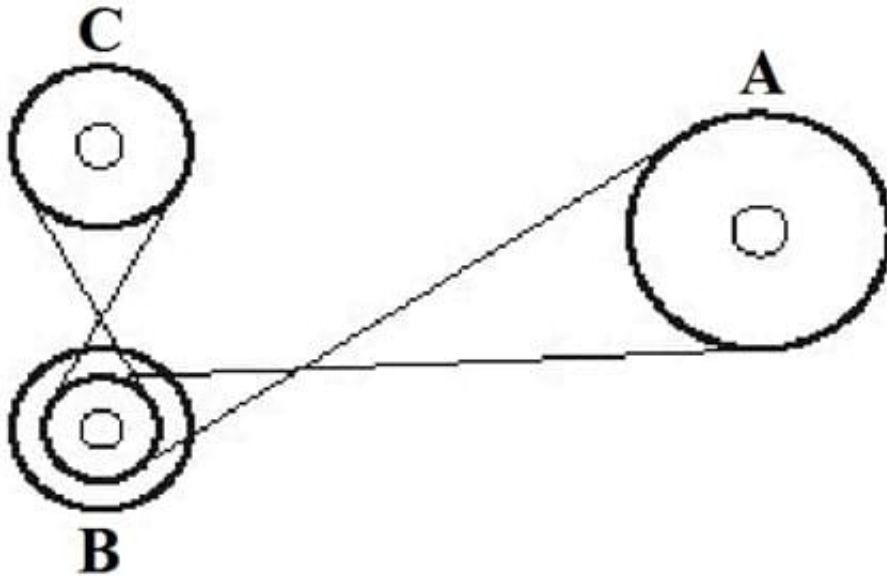Following Questions and Answers are all new published by ASVAB Official Exam Center

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QUESTION 1

Presume that Pulley C is rotating clockwise.

What direction will Pulley A rotate?

A. Clockwise

B. Counterclockwise

C. Insufficient information to answer

D. Pulley A will not rotate

Correct Answer: A

By rotating clockwise. Pulley C will cause Pulley B to rotate counterclockwise, which will in turn cause Pulley A to rotate clockwise.

QUESTION 2

An induction clutch works by _____.

A. magnetism

B. pneumatics

C. hydraulics

D. friction

Correct Answer: A

An induction clutch is a magnetic clutch.

QUESTION 3

A concrete beam has a maximum strength of 3,000 psi (pounds per square inch). In an experiment, a 500pound weight is placed in the center of the beam, and the stress in the beam is measured to be 1,000 psi.

If the stresses in the beam continue to increase at the same rate with added weight, how much additional weight can be added to the same location on the beam before the beam will break?

A. 500 pounds

B. 1,000 pounds

C. 1,500 pounds

D. 3,000 pounds

Correct Answer: B

The first 500 pounds generated 1,000 psi of stress in the beam; therefore, 500 more pounds will increase

the total stress to 2,000 psi.

Another 500 pounds will increase the stress to 3,000 psi, which we are told is the maximum strength of the

beam.

Therefore, the maximum additional load that can be applied to this beam before it breaks is 1,000 pounds.

QUESTION 4

An axe is an example of what type of simple machine.

A. Lever

B. Inclined plane

C. Wedge

D. None of the above

Correct Answer: C

An axe is a classic example of a wedge.

QUESTION 5

An aneroid barometer measures _____.

A. atmospheric pressure

B. water pressure

C. hydraulic-fluid pressure

D. the ambient temperature

Correct Answer: A

An aneroid barometer measures atmospheric pressure.

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