

## PE 3rd Class A1 Class Power Engineering - Sample Exam Questions And Answers

1. In a right angle triangle, the sine of an acute angle is equal to: Correct Answer: opposite side / hypotenuse

If a right-angle triangle has an angle of  $28^{\circ} 37'$  and the hypotenuse is 120 mm, the length of the opposite side is: Correct Answer: 57.48 mm

In the equation  $0.004 + D = 0.0042$ , the value of D is: Correct Answer: 0.0002

As the cosine decreases, the Correct Answer: value of the angle increases

Any two angles whose sum is  $90^{\circ}$  are: Correct Answer: complementary angles

One is the trigonometric value of: Correct Answer: A. sine of  $90^{\circ}$   
B. cosine of  $0^{\circ}$   
C. tangent of  $45^{\circ}$

A automobile travels at 60 miles per hour. Expressed in metres per second, this would be equivalent to: Correct Answer: 26.81 m/s

The force that is equal in magnitude but opposite in direction to the resultant force is called: Correct Answer: the equilibrant

A scalar quantity is one which has only magnitude and can be fully described by: Correct Answer: a number with the necessary unit

A body can be put into equilibrium by applying an additional force equal in magnitude but opposite in direction to the: Correct Answer: resultant

A displacement of 9 m north of point A, and another of 6 m west of point A can be added to give a resultant displacement from point A of: Correct Answer: 10.8 m N of W

The moment of a force about a point is: Correct Answer: a twisting or turning effect

When the co-efficient of friction increases and the force between two surfaces remains constant, the friction force will: Correct Answer: increase

A body having a gravitational force of 2000 N, is pulled along a horizontal surface at constant speed by a rope that makes an angle of  $20^{\circ}$  above the horizontal. If the pull on the rope is 150 N, the coefficient of sliding friction is: Correct Answer: 0.0723

Energy can be: Correct Answer: transformed to different forms

Velocity ratio is: Correct Answer: ideal mechanical advantage

A 1 N weight has a kinetic energy of 1 J when its speed is: Correct Answer: 4.4 m/s

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**R Barnett**



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*intro to padi divemaster equipment exchange test padi blog* - May 01 2022

web enter the divemaster equipment exchange the equipment exchange portion of divemaster training is the test that  
measures your ability to stay calm underwater to solve problems underwater and just generally to keep your stuff together  
equipment exchange is one of the skill tests that i have heard a lot of people struggle with

*padi divemaster requirements prerequisites and skills* - Mar 11 2023

web jul 19 2023 to start padi divemaster training you must be at least 18 years old and have the following certifications  
open water diver or a certification that meets this requirement advanced open water diver or a certification that meets this  
requirement cpr and first aid training in the past 24 months

**padi divemaster knowledge review flashcards quizlet** - Jun 14 2023

web list at least 5 characteristics of a good role model padi divemaster 1 excellent dive skills 2 practice safe responsible  
diving 3 demonstrate care for the environment 4 equipped with well maintained gear 5 easily build rapport with divers  
certified divers are responsible for following safe diving practices they ve been trained to use

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