

ENGINEERING SCIENCE N4 TUTORIAL ASSIGNMENT

1.1. Two vehicles move simultaneously, vehicle P moves at 220 km/h east while vehicle Q moves at 220 km/h in a direction $W30^\circ N$. Calculate the velocity of vehicle P relative to Q. (4)

1.2. Various options are given as possible answers to the following questions. Choose the answer and write only the letter (A–D) next to the question number (3.1–3.4) in the ANSWER BOOK.

The minute arm of a tower clock is 1,8 m long. It took 35 minutes to move from 2 to 9.

1.2.1 The angular displacement of the minute arm is ...
A 2,345 rad.
B 3,665 rad.
C 3,345 rad.
D 2,665 rad.

1.2.2 The arc length produced by the tip of the minute arm is ...
A 4,835 m.
B 5,524 m.
C 6,597 m.
D 4,524 m.

1.2.3 The angular velocity of the minute arm is ...
A $2,327 \times 10^{-3}$ m.
B $1,745 \times 10^{-3}$ m.
C $2,117 \times 10^{-3}$ m.
D $1,227 \times 10^{-3}$ m.

1.2.4 The linear velocity/tangential velocity of the minute arm is:
A $2,447 \times 10^{-3}$ m/s.
B $4,189 \times 10^{-3}$ m/s.
C $4,447 \times 10^{-3}$ m/s.
D $3,141 \times 10^{-3}$ m/s.

(4 × 2)

[8]

1.3.A priest is in a rested motorcar, with a mass of 780 kg, at the top of a slope of 80%. When he releases the brakes of the motorcar, it moves freely down for 25 m due to gravitational force to the bottom of the slope and then immediately onto a horizontal road until it comes to a rest at the bottom of the slope. Calculate the following:

1.3.1 The velocity of the motorcar at the bottom of the slope. (3)

1.3.2 The deceleration of the motorcar on the horizontal road, if it took 12 seconds to travel on the horizontal road. (2)

1.3.3 What is the kinetic energy of the motorcar after 12 seconds on the horizontal road? (1)

1.4. The plunger of a hydraulic press has a diameter of 90 mm with a stroke length of 480 mm while the diameter of the ram is 180 mm. The mechanical advantage of the plunger is 18. Calculate:

1.4.1 The force to be applied to the lever to lift a load of 4,2 Mg if efficiency is 96% (5)

1.4.2 The number of the pumping strokes needed to lift the load of 220 mm at efficiency of 96%. [4]

1.5. The plunger of a two-cylinder pump has a diameter of 150 mm and a stroke length of 250 mm. Calculate:

1.5.1 The volume delivered in l/s. (4)

1.5.2 The slip% if the volume delivered is 16,789 l/s. (2)

TUTORIAL 2

2.1. A stone is thrown at a velocity of 29 m/s at an angle of 35° to the horizontal.

Engineering Science N4 Question Paper For 3march 2014

**Rolly Intan, Chi-Hung Chi, Henry N.
Palit, Leo W. Santoso**



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Intelligence in the Era of Big Data Rolly Intan, Chi-Hung Chi, Henry N. Palit, Leo W. Santoso, 2015-03-12 This book constitutes the refereed proceedings of the 4th International Conference on Soft Computing Intelligent Systems and Information Technology ICSIIT 2015 held in Bali Indonesia in March 2015 The 34 revised full papers presented together with 19 short papers one keynote and 2 invited talks were carefully reviewed and selected from 92 submissions The papers cover a wide range of topics related to intelligence in the era of Big Data such as fuzzy logic and control system genetic algorithm and heuristic approaches artificial intelligence and machine learning similarity based models classification and clustering techniques intelligent data processing feature extraction image recognition visualization techniques intelligent network cloud and parallel computing strategic planning intelligent applications and intelligent systems for enterprise government and society Deep Learning and Natural Language Processing Based Real-Time Applications Mandakini Chagamreddy,

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web nov 25 2017 however the german version of the short form of the social phobia inventory mini spin has not been evaluated yet therefore our aim was to determine reliability validity and population based norms of the german mini spin

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