

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 Exam 18 November 2014

Tao Wei



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bekommen sie fließendes wasser mithilfe eines pumpenspiralschlauchs in das bachbett die erforderliche und ausreichend starke wasserpumpe wird in ca 30 bis 50 cm tiefe direkt im teich platziert

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web setzen sie die pumpe etwa 80 zentimeter tief in den boden so ist sie auch im winter vor frost und kälte geschützt der schlauch für den wasserkreislauf sollte etwa 30 zentimeter tief neben dem bachlauf verlegt werden so ist gewährleistet dass sie auch nachträglich noch kleinere reparaturen durchführen können last but not least der

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web ein schwimmteich oder naturpool verleiht dem garten zu allen jahreszeiten einen individuellen charakter durch die natürliche wasseraufbereitung entsteht ganzjährig ein wertvolles biotop für pflanzen und tiere hier gibt es 6 wichtige tipps zur gestaltung mit wasser im garten 1

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web denn je vielfältiger ein garten gestaltet ist desto interessanter ist er in der regel nicht nur für uns sondern auch für die tierwelt wer das leben und naturerleben in seinem garten fördern möchte sollte ein naturnahes gewässer einplanen wir zeigen wie es geht