

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.

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family planning services combined Visit rates declined sharply with age from 1447 at ages 15 24 to 479 at ages 35 44 Similar declines with age also were found in the visit rates for white and black women separately Nevertheless the annual visit rate for black women 1334 1000 was significantly higher than that for white women 1033 The highest overall visit rate was for black women 15 19 years of age 1867 1000 Nearly 2 3 of all family planning visits were to private medical sources Teenagers of all races had higher family planning service visit rates to clinics than to private medical sources as did black women age 15 24 White women age 20 and older had higher visit rates to private medical services than to clinics Never married women had higher visit rates to clinics than currently or formerly married women Data were also collected in 1982 on use of medical services for infertility by women who had difficulty in conceiving or carrying a pregnancy to term About 1 million ever married women had 1 or more infertility visits in the 12 months before the interview During the 3 years before interview about 1 9 million women had infertility visits For all ever married women as well as for white and black women separately infertility services were more likely to be secured from private medical sources than from clinics The survey design reliability of the estimates and the terms used are explained in the technical notes

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