

## 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  $35^\circ$  to the horizontal.

# Engineering Science N4 Answers

**Siddappa N.Byrareddy**



## **Engineering Science N4 Answers:**

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current engines are extremely complex and while the basic design of cylinder piston connecting rod and crankshaft has changed but little the overall performance in respect of specific power fuel economy pollution noise and cost has been absolutely transformed

*Child Support Assurance Act of 1992* United States. Congress. Senate. Committee on Labor and Human Resources. Subcommittee on Children, Family, Drugs and Alcoholism,1992

*U.S. Environmental Protection Agency Library System Book Catalog Holdings as of July 1973* United States. Environmental Protection Agency. Library Systems Branch,1974

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**Web Information Systems Engineering - WISE 2005** Anne H.H. Ngu,Masaru Kitsuregawa,Erich Neuhold,Jen-Yao Chung,Quan Z. Sheng,2005-10-24 This book constitutes the proceedings of the 6th International Conference on Web Information Systems Engineering WISE 2005 held in New York NY USA in November 2005 The 30 revised full papers and 20 revised short papers presented together with 18 poster papers were carefully reviewed and selected from 259 submissions The papers are organized in topical sections on Web mining Web information retrieval metadata management ontology and semantic Web XML Web service method Web service structure collaborative methodology P2P ubiquitous and mobile document retrieval applications Web services and e commerce recommendation and Web information extraction P2P grid and distributed management and advanced issues The presentation is rounded off by 14 industrial papers and the abstracts of 4 tutorial sessions

Electrical Engineering ,1918

Popular Science Monthly ,1916

Robomatix Reporter ,1984

Science and Art of Mining ,1913

**Popular Science Monthly and World Advance** ,1916

**Electrical Installation Record** ,1917

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**The National Electrical Contractor** ,1917

*Automobile Trade Journal* ,1917

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