

QUESTION 1: MOTION, ENERGY AND POWER

1.1 State the law of conservation of energy in words. (2)

1.2 A motorcar with a mass of 0,9 ton is parked on an incline AB of 1 : 20. The motorcar departs from rest at A and within 12 seconds reaches a speed of 144 km/h.

If all frictional losses are neglected, calculate:



1.2.1 The acceleration of the car from A to B

1.2.2 The pulling force of the car's engine

1.2.3 The length of the gradient

1.2.4 The power of the car's engine

1.2.5 The potential energy at B (5 x 2) (10)

1.3 A Gautrain experiences a tractive resistance of 280 N per 1 000 kg when it moves.

If the Gautrain exerts a force of 80 kN when it has a mass of 40 000 kg, calculate the acceleration of the Gautrain. (4)

[16]

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Higher National Engineering Curriculum Support Pack Mike Tooley, Lloyd Dingle, 2012-09-10 Used alongside the students text Higher National Engineering 2nd edition this pack offers a complete suite of lecturer resource material and photocopiable handouts for the compulsory core units of the 2003 BTEC Higher Nationals in Engineering Full coverage is given of the common core units for HNC D units 1 3 for all pathways as well as the two different Engineering Principles units unit 5 for mechanical and electrical electronic engineering and the additional unit required at HND for these pathways Engineering Design unit 6 The authors provide all the resources needed by a busy lecturer as well as a bank of student centred practical work and revision material which will enable students to gain the skills knowledge and understanding they require This pack will save a course team many hours work preparing handouts and assignments and is freely photocopiable within the purchasing institution The pack includes Exercises to support and develop work in the accompanying student text Planned projects which will enable students to display a wide range of skills and use their own initiative Reference material for use as hand outs Background on running the new HNC HND courses Tutor s notes supporting activities in the students book and resource pack *Science and Art of Mining* ,1927 South African national bibliography State Library (South Africa),1985 Classified list with author and title index The Management Accountant ,1972 *Indian Engineering* Patrick Doyle,1905 *English Mechanic and World of Science* ,1886 **Current Index to Journals in Education** ,1991 The Annual American Catalogue 1886-1900 ,1895 **English Mechanic and Mirror of Science** ,1870 *English Mechanics and the World of Science* ,1885 *Electrical Engineering* ,1918 **English Mechanic and Mirror of Science and Art** ,1887 **Normal Instructor and Teachers World** ,1915 U.S. Government Research & Development Reports ,1969-10 Environment Information Access ,1973 The American Catalogue ,1905 *African Books in Print* ,1993 *The Environment Index* ,1987 The American Catalogue ... July 1, 1876-Dec. 31, 1910 ,1908 **The American Catalog, 1900-1905** ,1905

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