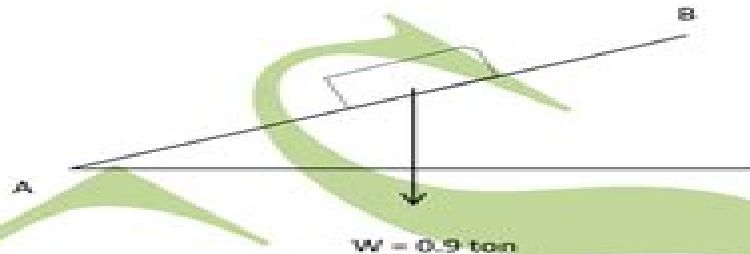


QUESTION 1: MOTION, ENERGY AND POWER

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]

Sample Questions Engineering Science N3

**Sio-long Ao, Alan Hoi-Shou Chan, Hideki
Katagiri, Li Xu**

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GATE Question Bank - Engineering Sciences Mocktime Publication, 2400 MCQs GATE Engineering Sciences Chapterwise Question Bank Based on New Syllabus *BEL Engineer Exam PDF-Computer Science Engineering Practice Sets eBook* Chandresh Agrawal,Nandini Books,2025-01-11 SGN The BEL Engineer Exam PDF Computer Science Engineering Practice Sets eBook Covers Objective Questions With Answers *Model-oriented Systems Engineering Science* Duane W. Hybertson,2016-04-19 Systems engineering SE is experiencing a significant expansion that encompasses increasingly complex systems However a common body of knowledge on how to apply complex systems engineering CSE has yet to be developed A combination of people and other autonomous agents crossing organization boundaries and continually changing these hybrid systems are less predictable while being more self organizing and adaptive than traditional systems The growing pains of this evolution and the ever widening reach of SE technology require an effective foundation for integrating traditional and complex engineering methods addressing machine and human interaction as well as scaling up and down from nano scale to the macro system of systems level Model oriented Systems Engineering Science A Unifying Framework for Traditional and Complex Systems addresses solutions to that expansion and integration problem This text takes advantage of better understood systems science SS to support the transition identifying and using commonalities between complex systems and other sciences such as biology sociology cognitive science organizational theory and computational science The author defines Model oriented Systems Engineering Science MOSES an organized system that selects appropriate information from these disciplines and unifies it into a coherent framework The result is a seamless approach to the class of systems across the extended scope of the new SE a foundation upon which to develop an enhanced and unified SE Modeling orientation MO provides a common perspective on the entire SES SE enterprise including all supporting sciences engineering for the full range of traditional complex and hybrid systems and their management This book extends existing modeling approaches into an MO that views all science artifacts and engineering artifacts as models of systems It organizes them into a virtual structured repository called the SE model space effectively a container for the accumulating body of SE and SES knowledge in the form of models and patterns By organizing and integrating all these elements into a common framework the author makes the material not only easily accessible but also immediately applicable and provides a well grounded basis for future growth and evolution of the SE discipline [CSIR-CSIO TECHNICAL ASSISTANT GR III EXAM PDF-COMPUTER SCIENCE ENGINEERING SUBJECT PRACTICE SETS PDF](#) Chandresh Agrawal,Nandini Books,2025-08-02 The CSIR CSIO TECHNICAL ASSISTANT GR III EXAM PDF COMPUTER SCIENCE ENGINEERING SUBJECT PRACTICE SETS PDF Covers Objective Questions With Answers **APPSC Exam PDF-Andhra Pradesh Lecturer Exam-Computer Science Engineering Subject eBook** Chandresh Agrawal,Nandini Books,2024-04-28 SGN The APPSC Exam PDF Andhra Pradesh Lecturer Exam Computer Science Engineering Subject eBook Covers Practice Sets With

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