

Question # 5

Physical Sciences: EXEMPLAR 2014 Paper 1 (Grade 12)

(WORK ENERGY AND POWER)

QUESTION 4 (Start on a new page.)

Two boys, each of mass m , are standing at the back of a trolley of mass $2m$. The trolley is at rest on a frictionless horizontal surface.

The boys jump off simultaneously at one end of the trolley with a horizontal velocity of 2 m s^{-1} . The trolley moves in the opposite direction.

- 4.1 Write down the principle of conservation of linear momentum in words. (2)
- 4.2 Calculate the final velocity of the trolley. (2)
- 4.3 The two boys jump off the trolley one at a time. Show that the velocity of the trolley compares to that calculated in QUESTION 4.2? (1)

QUESTION 5 (Start on a new page.)

A 2 kg trolley is at rest on a frictionless horizontal surface. A constant horizontal force of 10 N is applied to the trolley over a distance of 2.5 m .



When the force is removed at point A, the trolley moves a distance of 10 m up the incline until it reaches the maximum height at point B. When the trolley moves up the incline, there is a constant frictional force of 2 N acting on it.

- 5.1 Write down the name of a non-conservative force acting on the trolley as it moves up the incline. (1)
- 5.2 Draw a labelled free-body diagram showing all the forces acting on the trolley as it moves along the horizontal surface. (2)
- 5.3 State the WORK-ENERGY THEOREM in words. (2)
- 5.4 Use the work-energy theorem to calculate the speed of the trolley when it reaches point B. (4)
- 5.5 Calculate the height, h , that the trolley reaches at point B. (2)

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Christine D. Tippett, Todd M. Milford, 2019-07-01 This book offers a meso level description of demographics science education and science teacher education Representing all 13 Canadian jurisdictions the book provides local insights that serve as the basis for exploring the Canadian system as a whole and function as a common starting point from which to identify causal relationships that may be associated with Canada's successes The book highlights commonalities consistencies and distinctions across the provinces and territories in a thematic analysis of the 13 jurisdiction specific chapters Although the analysis indicates a network of policy and practice issues warranting further consideration the diverse nature of Canadian science education makes simple identification of causal relationships elusive Canada has a reputation for strong science achievement However there is currently limited literature on science education in Canada at the general level or in specific areas such as Canadian science curriculum or science teacher education This book fills that gap by presenting a thorough description of science education at the provincial territorial level as well as a more holistic description of pressing issues for Canadian science education

The Oxford Handbook of Human Memory, Two Volume Pack Michael J. Kahana, Anthony D. Wagner, 2024 The Oxford Handbook of Human Memory provides an authoritative overview of the science of human memory its application to clinical disorders and its broader implications for learning and memory in real world contexts Organized into two volumes and eleven sections the Handbook integrates behavioral neural and computational evidence with current theories of how we learn and remember Overall The Oxford Handbook of Human Memory documents the current state of knowledge in the field and provides a roadmap for the next generation of memory scientists established peers and practitioners

Modes of Explanation M. Lissack, A. Graber, 2014-12-16 Modes of Explanation is the first book in decades to attempt to bring these conflicting approaches together and to offer a compelling narrative to explore how the paradox of explanation can converge

Quantum Mind and Social Science Alexander Wendt, 2015-04-20 There is an underlying assumption in the social sciences that consciousness and social life are ultimately classical physical material phenomena In this ground breaking book Alexander Wendt challenges this assumption by proposing that consciousness is in fact a macroscopic quantum mechanical phenomenon In the first half of the book Wendt justifies the insertion of quantum theory into social scientific debates introduces social scientists to quantum theory and the philosophical controversy about its interpretation and then defends the quantum consciousness hypothesis against the orthodox classical approach to the mind body problem In the second half he develops the implications of this metaphysical perspective for the nature of language and the agent structure problem in social ontology Wendt's argument is a revolutionary development which raises fundamental questions about the nature of social life and the work of those who study it

In the Shadow of the Machine Jeremy Naydler, 2018-05-29 Contemporary life is so deeply reliant upon digital technology that the computer has come to dominate almost every aspect of our culture What is the philosophical and spiritual significance of this dependence on electronic technology both for our relationship to nature and for the future of humanity And what processes in human perception and

awareness have produced the situation we find ourselves in As Jeremy Naydler elucidates in this penetrating study we cannot understand the emergence of the computer without seeing it within the wider context of the evolution of human consciousness which has taken place over millennia Modern consciousness he shows has evolved in conjunction with the development of machines and under their intensifying shadow The computer was the product of a long historical development culminating in the scientific revolution of the 17th century It was during this period that the first mechanical calculators were invented and the project to create more complex thinking machines began in earnest But the seeds were sown many hundreds of years earlier deep in antiquity Naydler paints a vast panorama depicting human development and the emergence of electronic technology His painstaking research illuminates an urgent question that concerns every living person today What does it mean to be human and what if anything distinguishes us from machines *Proceedings of the Fourteenth Annual Conference of the Cognitive Science Society* Cognitive Science Society (US) Conference,2014-05-12 This volume features the complete text of all regular papers posters and summaries of symposia presented at the 14th annual meeting of the Cognitive Science Society 3D Bioprinting for Reconstructive Surgery Daniel J. Thomas,Zita M. Jessop,Iain S. Whitaker,2017-11-14 3D Bioprinting for Reconstructive Surgery Techniques and Applications examines the combined use of materials procedures and tools necessary for creating structural tissue constructs for reconstructive purposes Offering a broad analysis of the field the first set of chapters review the range of biomaterials which can be used to create 3D printed tissue constructs Part Two looks at the techniques needed to prepare biomaterials and biological materials for 3D printing while the final set of chapters examines application specific examples of tissues formed from 3D printed biomaterials 3D printing of biomaterials for tissue engineering applications is becoming increasingly popular due to its ability to offer unique patient specific parts on demand at a relatively low cost This book is a valuable resource for biomaterials scientists biomedical engineers practitioners and students wishing to broaden their knowledge in the allied field Discusses new possibilities in tissue engineering with 3D printing Presents a comprehensive coverage of the materials techniques and tools needed for producing bioprinted tissues Reviews emerging technologies in addition to commercial techniques **Stepping Away from the Silos** Margaret Coutts,2016-11-10 For over twenty years digitisation has been a core element of the modern information landscape The digital lifecycle is now well defined and standards and good practice have been developed for most of its key stages There remains however a widespread lack of coordination of digitisation initiatives both within and across different sectors and there are disparate approaches to selection criteria The result is silos of digitised content Stepping away from the Silos examines the strategic context in the UK since the 1990s and its effect on collaboration and coordination of exemplar digitisation initiatives in higher education and related sectors It identifies the principal criteria for content selection that are common to the international literature in this field The outputs of the exemplar projects are examined in relation to these criteria A range of common practices and patterns in content selection appears to have

developed over time forming a de facto strategy from which several areas of critical mass have emerged The book discusses the potential to improve strategic collaboration and coordinated selection by building on such a platform and considers planning options in the context of work on national digitisation strategies in the UK and internationally Summarises the rise of publicly funded digitisation in the UK from the 1990s to date and identifies the need to improve coordination and content selection criteria Reviews the role of digitisation in government and organisational strategies from the 1990s to the present day Examines the strategic position of collaboration within and across different organisations Identifies common selection criteria and outlines the coverage of exemplar projects Discusses the apparent emergence of a de facto selection strategy and the potential for national strategic planning of digitised content based on existing outputs and improved collaboration

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